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1980 ~ 1981 FROSH HANDBOOK



The Engineer's Hymn

Godiva was a lady who through Coventry did ride,
To show to all the villagers her fine and lily-white hide.
The most observant villager, an Engineer of course,
Was the only one to notice that Godiva rode a horse.

Said she, "I've come a long, long way and I will go as far,
With the man who takes from this horse and leads me to a bar."
The men who took her from her steed and stood her to a beer,
Were a blurry-eyed surveyor and a drunken Engineer.

Godiva was a lady well-endowed there was no doubt,
She never wore a stitch of clothes just wound her hair about.
The first man that made her was an Engineer of course,
And on just one beer an artsie queer made Godiva's horse.

My father was a miner from the Northern Malamute,
My mother was a mistress in a house of ill repute.
The last time that I saw them both these words rang in my ears,
"Get out of here you son of a bitch and join the Engineers."

An artsman and an Engineer once found a gallon can,
Said the artman, 'Match me drink for drink, let's see if you're a man.'
They drank three drinks, the artman fell, his face was turning green,
But the Engineer drank on and said, "It's only gasoline."

I happened once upon a girl whose eyes were full of fire,
Her physical endowments would have made your hands perspire.
To my surprise she told me that she never had been kissed,
Her boyfriend was a tired engineering scientist.

The army and the navy boys went out to have some fun,
Down to the local tavern where the fiery liquors run.
But all they found were empties, for the Engineers had come,
And traded all their instruments for gallon kegs of rum.

Sir Francis Drake and all his men set out for Calais Bay,
They'd heard the Spanish Rum fleet was headed that way.
But the Engineers had beat them by a night and half a day,
And though as tight as virgins, you still could hear them say...

On reading Kama Sutra, a guy learned position nine,
For proving masculinity, it truly was divine.
But then one day the girl rebelled and threw him on his rear,
For he was a feeble artsie and she was an Engineer.

Caesar set out for Egypt at the age of fifty-three,
And Cleopatra's blood was warm, her heart was young and free.
And every night when Julius said goodnight at three o'clock,
A Roman Engineer was waiting just around the block.

Venus is a statue made entirely out of stone,
There's not a fig leaf on her, she's as naked as a bone.
On noticing her arms were gone, an Engineer discoursed,
"The damn thing's busted concrete and it should be reinforced."

A maiden and an Engineer were sitting in the park,
The Engineer was busy doing research after dark.
His scientific method was a marvel to observe,
While his right hand wrote the figures down, his left hand traced the curves.

My father peddles opium, my mother's on the dole,
My sister used to walk the street, but now she's on parole.
My brother runs a restaurant with bedrooms in the rear,
But they don't even speak to me 'cause I'm an Engineer.

Joe E. Skule's 100 but he has a heart of gold,
He gave the Meds his Skule house when it was 94 years old.
The medics were very grateful, but they have problems with precision,
For they use those T-squares and dividers for making their incisions.

Ace Towing roams the streets of Yorkville each and every night,
They tow the cars, and stow the cars and hide them out of sight;
They tried to tow Godiva's Horse, the Engineers said, "Hey!"
They towed away the towing truck, and now the Ace must pay.

An Engineer once came to class so drunk and very late,
He stumbled through the lecture hall at an ever diminishing rate.
The only things that held him up and kept him on his course,
Were the boundary condition and the electromotive force.

Every year en masse the Engineers take to the street,
To show that Skulemen give a damn and aid C.F.'s defeat.
With customary gusto and teamed with a nurse of course,
They raise the bucks by shining shoes with spirited BRUTE FORCE!

The Jerry P. Potts trophy for the Chariot Race at Skule,
Had been stolen from the fold but Mario said, "Dis ain't cool."
So Mario recovered it, returned it to the throngs,
On the condition that the Skulemen sing his praises in their song.

Now you've heard our story and you know we're Engineers,
We love to love our women, and we love to drink our beers.
We drink to every fellow who comes here from far and near,
'Cause we're a HELL-OF-A, HELL-OF-A, HELL-OF-A, HELL-OF-A,
HELL-OF-AN ENGINEER!!

CHORUS:

We are, we are, we are, we are the Engineers,
We can, we can, we can, we can demolish forty beers,
Drink rum, Drink rum, Drink rum, Drink rum, and come along
with us,
For we don't give a damn for any damn man who don't give a damn
for us!

— CANNON —

Toike Oike, Toike Oike, (SKULE YELL)
Ollum te chollum te chay,
School of Science, School of Science
Hurray, Hurray, Hurray...

We are, we are, we are the Engineers,
We can, we can demolish forty beers,
Drink rum (straight), drink rum (straight), and come along with us,
For we don't give a damn for any damn man who don't give a damn
for us!!!
YAAAY SKULE!!

1980-1981

F!ROSH

HANDBOOK

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Staph

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Dean's Dialogue



As you enter undergraduate engineering studies, it is an appropriate time to look at your career objectives and plan to develop the necessary knowledge and experience to achieve them. Four years must seem a long time ahead, but you will find it little enough to acquire the skills and insights which you will need in your continuing professional career.

We are living in a time of considerable polarization in our society: antagonist versus protagonist, developer against conservationist, labour against management, free enterprise versus government control. The public is subjected to conflicting opinions on technical matters from specialist individuals and pressure groups. The result is often confusion, disillusion and cynicism. Our society is also coming painfully to a realization of the limited amounts of raw materials available to us and to future generations.

In this situation, the professional engineer has a contribution to make which is greater, and probably more difficult, than ever before.

A basic role of the engineer is to design devices and systems to meet society's needs. In the process of design, we rarely have the luxury of a simple, clear objective. Normally, many factors or pressures must be considered and brought together to approach an optimal combination, judged by the value system which is current in our time. To succeed, the engineer must understand and practice well the arts of constructive compromise. In a world where extreme and biased views abound, the engineers must weigh all factors and balance them carefully in arriving at a design, be it for a microprocessor or a transportation system. Possibly more than any other group in society, professional engineers are equipped by their education and experience to reach effective and acceptable solutions to many of society's problems.

But, while this possibility exists, it will come to be only the extent that engineers can gain and hold the confidence of the individuals and groups who make up that society. Our knowledge must be factual, reliable and as up-to-date as feasible. It must often extend beyond technical matters to include economic, social, political and psychological areas. The engineer must be an effective communicator, not only to other engineers but also to the public. In addition, the engineer who is to gain public confidence must be a good listener, sensitive to the desires and fears of those who feel threatened by technology.

Your curriculum is intended not only to provide you with a basic framework of technical knowledge but also to inculcate those habits of reasoning and organization which are fundamental to the practice of engineering. Mastering the formal requirements of this curriculum will require you to organize your use of time, that irreplaceable commodity, most efficiently. Also, as a student at the University of Toronto, you have joined one of the great intellectual communities of the North American continent. Your breadth and depth of understanding of the world of your generation will be increased as you involve yourself in the many extra-curricular opportunities which this community offers. Eventually, these involvements will contribute significantly to your effectiveness as an engineer.

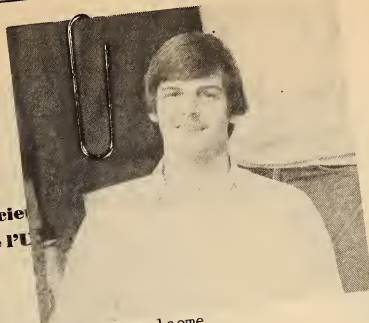
In the large community of the Faculty of Applied Science and Engineering it is possible for you, if you so choose to be unknown and anonymous. Our student-staff ratio is, however, about the same as at smaller engineering schools. The doors of most professors are readily openable. The difference in our large community is that we on the staff demand more on your problems and enthusiasms. The exercise and development of that initiative is an important feature of becoming a good engineer and we hope that it is a distinguishing feature of our Faculty.

The challenges ahead of you are great, but so also are the rewards of satisfaction and accomplishment. You will occasionally have doubts, but so also do professors — and particularly deans. I welcome you to the Faculty and wish you success in this new phase of your career.

Gordon R. Slemmon
Dean



University of Toronto Engineering Society
Association des Etudiants en Génie de l'U



On behalf of the Engineering Society, I would like to welcome you to the Faculty of Applied Science and Engineering. As an undergraduate you are now a member of Canada's oldest and most respected engineering school. For most, the next four years will represent a very critical and memorable period in your life. The freedom will exist for you to expand both academically and socially, however, it will be up to you to take advantage of both.

The main objective of the Engineering Society is to provide you with the opportunity to become involved in a large variety of activities. It will be difficult to forget your first encounters with the cornerstones of SKULE life - 700 F!rosh trying to sing the Engineer's Hymn accompanied by the LGMB and the Skule Cannon, getting downtown for a 3 A.M. caper, or meeting a F! nurse during Orientation. From the purely social events - the new improved Cannonball semi-formal - to the partially social events - the national student engineering conference - every Engineering Society function will add a new dimension to your university experience.

Engineering is the combination of teamwork, hard work and play. The friends you make at a caper may well be the same friends you turn to the night before a big exam. Teamwork means becoming involved, and co-operating with other people and this skill cannot be obtained by studying in the library every night. Over the next four years there will be many sleepless nights and hours of frustration; there will be many mistakes and arguments, but in the end all of your time and effort will appear justified. The sense of accomplishment will build as each year passes and when you finally receive your Iron Ring you will have not only learned in an academic sense, but also in a social sense.

Engineering undergrads are in a unique position on campus - to be a Skuleman requires dedication, total involvement and pride in knowing that you are amongst a select group of individuals. You are all capable of being damned good engineers, all you have to do is get out there and prove it!

Scite and Strenue
(Skillfully and Vigorously)

David LeGresley
David LeGresley
President
Engineering Society

20 St. George St., 3rd Floor
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A Few Words About...

A few words about some of the things you may be wondering about are now in order.

One of your largest expenses in the next few weeks is for **BOOKS AND EQUIPMENT**. One of the best bits of advice we can give is: "Don't rush out and buy all your books the first week." Find out first if your prof is going to assign problems from it or refer to it in the lectures. Some texts, in the past, have languished unused on shelves. Sometimes alternate texts are far superior. Others are referred to quite a bit and will prove helpful. Also, make use of the Schaum's Outlines which cost much less than the text and are often much more valuable for the problem oriented course.

When you do come to buy your books, you will find them all at the Engineering Stores at the lowest possible prices. You will also find a good selection of calculators at the Stores. A good calculator is essential, but prices are still dropping so beware of committing yourself to an expensive investment in rapidly outdated technology. Remember that continous memory and card programmable calculators are not permitted in exams, so, if you have one, you'll have to beg, borrow, or steal an acceptable one for the exam.



Another thing we'd like to expound upon here is **THE CARE AND FEEDING OF PROFS**. Despite what you may think, they do, to a man, know more about the subject than you do. Profs have no vested interest in destroying any of you. They are, however, human and subject to some very human hangups.

One problem they have is that, with no training in teaching, they often have trouble in establishing communication. Many tiny hassles develop into major confrontations simply because no student would go to the prof's office and explain that the method of handling a problem set was unworkable or that his writing on the board was unreadable from the back of the second row. The best way to avoid even these efforts is to take part in the staff-student smokers and get to know the staff and other students.

There may, however, be some situations which no amount of friendly communication will heal. When this happens, run, don't walk to the Faculty Office and ask to see W.A. Miller, the Chairman of First Year Studies. He not only has the power to effect change and wants to help, but he is one of the friendliest people you'll meet at the university.

While we're on the subject, we might say a little more about the **FACULTY OFFICE**. That's where you'll find the aforementioned Associate Dean Miller, as well as Associate Dean Janischewskyj, Associate Dean Leitch, Secretary to the Faculty Mr. Gow, and of course Dean Slemmon himself, not to mention a whole host of comely nubiles. All these people are sincerely interested in helping out.

Two subjects freshmen Engineers are always curious about are **RESIDENCES AND COLLEGES**. Taking them in turn, if you are not already in a residence, chances are slim that you will change this year. However a very large number of students find it advantageous to live away from home sometime during their university career. What it lacks financially compared to living at home, it certainly makes up for in independence. If you're from out of town, of course, you are living somewhere away from home.

However, there are many types of residences to choose from, ranging all the way from a rented room through to university residence to co-op. No one type is best for everyone, so try to visit and talk with people in all kinds to find out what kind of home you should be committed to.

Living on campus, and particularly in one of the college residences, can add a lot to your social life. Watch out, however, and leave yourself some time for study and other trivial things. Even if you don't live in at one of the colleges you can still join one for a few measly dollars. If you think you'll need the college library or mind paying a little extra for the few college dances or have high enough marks (80-85 and up) to warrant a scholarship there, then joining a college is for you. Otherwise, don't waste your money.

The biggest problem facing you, of course, is four years of **WORK**. The best thing we can say to you is:

don't get behind in your work. Having said that, we admit (once we stopped laughing) that everyone does get behind sooner or later and must catch up. This is possible, barely.

To go to your professor with your problem, but try to define ahead of time specific questions. Really, in most of your work, organization is half the battle.

The staff tells us that the 'average student' will work an 'average' of 48 to 50 hours per week including classes. Be prepared to devote this time but remember that nobody's average and try to set some sensible priorities for yourself. No student ever does everything he is supposed to do but if you organize yourself in order to have specific commitments of time to schoolwork and outside activities then you can retain both your marks and your sanity.



The things that will loom largest in your life in the next four years are tearful experiences known as **PROBLEM SETS**. Most of the work you'll do here, outside of note taking, studying and the occasional experiment, will involve solving a specific number of problems to be handed in at a set time and marked.

The importance of these marks varies wildly but generally the problem sets are teaching tools, not examinations. If you do nothing else while you are here, do the problem sets — you'll probably pass with ease. If you haven't got them done on time, tell the demonstrator or prof, and ask for an extension — then at least he won't be angry with you (too much).

Even though problem sets are often your only method of self-assessment, virtually everyone has copied part of one (or worked in a group part of one (or worked in a group on a supposedly independent effort) at some time or another. Let us caution you, however, about falling into the habit of copying whole sets on many occasions. When the exams (which count a lot more) come, you are doomed! And you don't fool anybody during the term, either.

We hear that in high school they still like the students to show up for most classes. At university your time is at a premium, so use it wisely. Some lectures are plainly a waste of time, so feel free to skip them. However, that seemingly irrelevant material covered during those boring lectures may not seem so useless during, say, the last weeks before Christmas or the period around the end of April, or, for that matter, around mid-summer when you do get your results. Some profs have a habit of leaving half of the course material to the last few weeks, then basing the exam almost entirely on it, so beware.



Speaking of Christmas, and Study Week for that matter, plan on getting nothing done during this time because that's exactly what will happen anyway.

We hope that you are in the mood to be depressed because we now have to talk about **EXAMS**. It is certainly not in our capability to tell you how to achieve good marks on these disasters. Rather, we will impart to you a few tips concerning the fighting of this devastating holding action.

Firstly, they are virtually all made up of problems, not essays. This means it is really possible to get zero or some other incredibly terrible mark. Mostly you will leave an exam convinced that the proper course of action for you is to transfer to a basket weaving course at some community college.

But be of good cheer. What really counts is the mystical, magical **Bell Curve**. Nearly all profs believe that the mark distribution should follow a *normal* (gaussian) curve, with the average somewhere around 65 - 70%. The marks are usually "adjusted" to fit, so what really matters is how badly you did in relation to the rest of the class. (If everyone else failed too, then your zero looks only half as bad).

Usually on term tests they leave these marks so that you are frightened into doing some work but on a final exam they are usually all raised (but not always — the curve works both ways, so if everyone did really well your mark may go down!).

One usually walks into an exam feeling terrible. If there is a good medical excuse for this, or even if it is just exam nerves, take advantage of the provisions for petitioning the Examination Committee.

The way this is explained in the calendar, you get the impression that extensive hospitalization or death (yours) might, just possibly, be acceptable petition subjects, sometimes. In reality anything from a bad trip to a bad cold is legit and worth the short walk over to the Health Service. It costs nothing and may be worth quite a few marks. Do your petitioning at once, however, since they somehow suspect petitions which arrive simultaneously with the receipt of the final marks.

Other than that all we can say is good luck and if you find the secret of success phone us at 978-2916 and we'll take it off your hands at a reasonable rate.

MURPHY'S LAWS

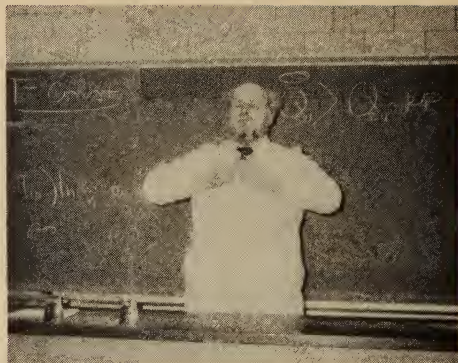
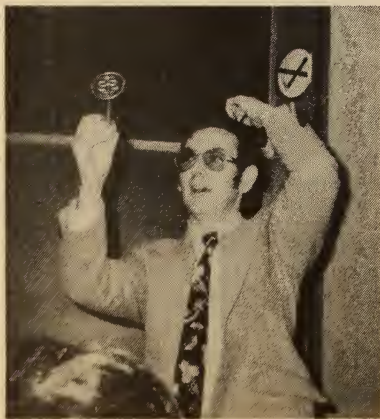
There is no other law of nature which applies to engineering life more than "Murphy's Law". So when your experiments screw up, turn to this page and find out why.

Murphy's Law: If anything can go wrong, it will.

Corollary: Whenever it seems that nothing worse can possibly happen, it will.

Theorems

- 1) Nothing is ever as simple as it seems.
- 2) Everything always costs more than you can afford.
- 3) If you fool around with something long enough, it will eventually break.
- 4) If you try to please everybody, someone isn't going to like it.
- 5) If you explain something so clearly that no one could possibly misunderstand, someone will.
- 6) It is easier to get into something than it is to get out of it.
- 7) Whatever you want to do, you always have to do something else first.
- 8) Left to themselves, things will always go from bad to worse.
- 9) Nature always sides with the hidden flaw.
- 10) Mother Nature is a bitch.
- 11) If everything seems to be going well, you've overlooked something.



1. **Murphy's Law** — if anything can go wrong, it will.
2. **Patrick's Theorem** — If the experiment works, you must be using the wrong equipment.
3. **Skinner's Constant** — That quantity which, when multiplied times, divided by, added to, or extracted from the answer you got... gives you the answer; also known as Finnegan's Finagling Factor.
4. **Horner's Five-Thumb Postulate** — Experience varies directly with equipment ruined.
5. **Flafle's Law of the Perversity of Inanimate Objects** — Any inanimate object, regardless of its composition or configuration, may be expected to perform at any time in a totally unexpected manner for reasons that are either entirely obscure or else completely mysterious.
6. **Allen's Axiom** — When all else fails, read the instructions.
7. **The Spare Parts Principle** — The accessibility, during recovery, of small parts which fall from the work bench, varies directly with the size of the part... and inversely with its importance to the completion of the work underway.
8. **The Compensation Corollary** — The experiment may be considered a success if no more than 50 of the observed measurements must be discarded to obtain a correspondence with theory.
9. **Gumperson's Law** — The probability of a given event occurring is inversely proportional to its desirability.
10. **The Ordering Principle** — Those supplies necessary for yesterday's experiment must be ordered no later than tomorrow noon.
11. **The Ultimate Principle** — By definition, when you are investigating the unknown you do not know what you will find.
12. **The Futility Factor** — No experiment is ever a complete failure — it can always serve as a bad example.



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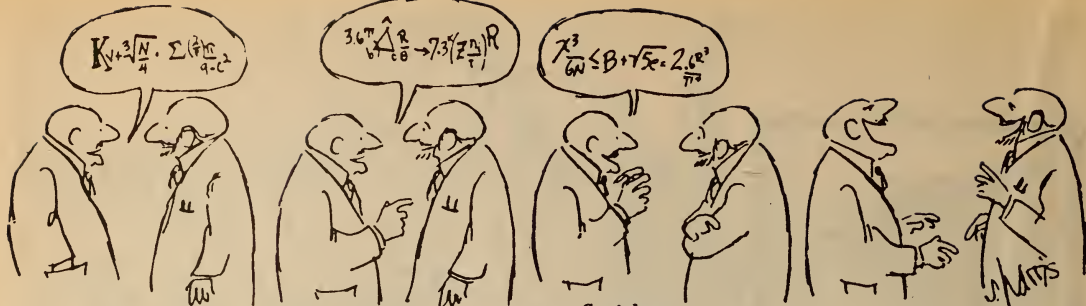
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Eng Sci Entrance Exam

Instructions

Read each question carefully. Answer all questions. Time limit: 4 hours. Begin immediately.

History

Describe the history of the papacy from its origin to the present day, concentrating especially, but not exclusively, on its social, political, economic, religious, and philosophical impact on Europe, Asia, America, and Africa. Be brief, concise, and specific.

Medicine

You have been provided with a razor blade, a piece of gauze, and a bottle of Scotch. Remove your appendix. Do not suture until your work has been inspected. You have fifteen minutes.

Public Speaking

Twenty-five hundred riot-crazed aborigines are storming the classroom. Calm them. You may use any ancient language except Latin or Greek.

Biology

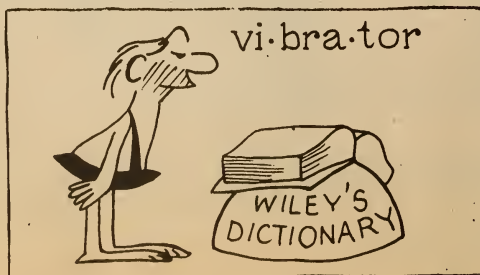
Create life. Estimate the differences in subsequent human culture if this form of life had developed fifty million years earlier, with special attention to its probable effect on the English Parliamentary system. Prove your thesis.

Music

Write a piano concerto. Orchestrate and perform it with flute and drum. You will find a piano under your seat.

Psychology

Based on the knowledge of their works, evaluate the emotional stability, degree of adjustment, and repressed frustrations of each of the following. Alexander of Aphroditēs, Ramses II, Gregory of Nica, Hammurabi. Support your evaluation with quotations from each man's work, making appropriate references. It is not necessary to translate.



Sociology

Estimate the sociological problems which might accompany the end of the world. Construct an experiment to test your theory.

Engineering

The disassembled parts of a high-powered rifle have been placed on your desk. You will also find an instruction manual printed in Swahili. In ten minutes a hungry Bengal tiger will be admitted to the room. Take whatever action you feel appropriate. Be prepared to justify your decision.

Economics

Develop a realistic plan for refinancing the national debt. Trace the possible effects of your plan in the following areas: Cubism, the Donatist controversy, the wave theory of light. Outline a method for preventing these effects. Criticize this method from all possible points of view. Point out the deficiencies in your point of view, as demonstrated in your answer to the last question.

Political Science

There is a red telephone on the desk beside you. Start World War Three. Report at length on its socio-political effects, if any.

Epistemology

Take a position for or against truth. Prove the validity of your position.

Physics

Explain the nature of matter. Include in your answer an evaluation of the impact of the development of mathematics on science.

Philosophy

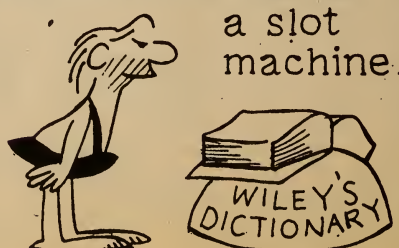
Sketch the development of human thought and estimate its significance. Compare with the development of any other kind of thought.

Astronomy

Define the universe. Give three examples.

General Knowledge

Describe in detail. Be objective and specific.





Who Runs This Place?

The highest governing body within this university is the **Governing Council**. SO WHAT?

Just by reading one line you have become better informed than 90% of the university community. Those who have heard of Governing Council have only a vague idea what it does (and no one knows just how it operates). Simply, any matter of importance at the University of Toronto is ultimately subject to Governing Council approval. This body generally makes its decisions in total isolation from the university community. The eight student governors are hard-pressed to adequately represent their 40,000 constituents. Therefore, in order to find out about G.C. or to have input into its decisions you must turn to one of your student organizations. S.A.C. (they've got to be good for something!) has a commission entirely devoted to University Government. They are anxious to answer your questions. As well, your Engineering Society is attempting to find out who the hell actually runs this joint. If you want help with this formidable task, start bugging someone in the Eng. Soc. offices.

The Faculty of Engineering is run, with a little help from the Colonel, by the **Faculty Council**. While all profs and thirty undergraduates (plus assorted other riff-raff) are members of the council, attendance records show that at any given meeting students approach a majority. Since this Council deals with such minor matters as who gets into and out of Engineering, and everything that happens in between, students have a very strong voice in the affairs of this faculty. Also there are students on almost all committees of Council where the nitty-gritty work is done. The strength of this student voice means that you must be very careful electing your class representatives to Faculty Council; they can do much good or a lot of damage.

Since the faculty council enforces the rules and regulations of this faculty, you may become involved with it whether you want to or not. If you don't feel that some rule should apply to you, then you should petition the appropriate committee of Faculty Council. (While the rules are strict, individual exemptions are carefully considered.) If some committee makes a decision concerning you which does not seem fair, then submit an appeal to the **Faculty Ombudsman Committee**. When these people are convinced that some injustice has been done, you will have a strong voice on your side.

In any case, when you find yourself in a bind, there are several people whose job it is to help:

- i) If it involves a prof, talk to him; it is best to clear up a misunderstanding at the source.
- ii) Your department chairman or student advisor will lend a sympathetic ear.
- iii) The Faculty Secretary will answer questions and advise you on the procedures of petitions and appeals.
- iv) The Deans: they are busy men, but they care about students.

More important there are people who just want to help. Your class rep to Faculty Council can find the

best place to solve your problem. In the Engineering Society you will find that one of the most experienced petitioners in the faculty is the president, Dave LeGresley.

At the department level, there is an organization involved in the routine operations of each department. Student involvement varies with departments and is poorly understood in general. If you bug the right people, class or club reps, club chairmen, and various Eng. Soc. hacks, then someone will have to find out what's going on.



At the risk of repeating a well worn word, **welcome**; this time on behalf of the University of Toronto **Students Administrative Council** (SAC for short).

SAC exists to represent and serve the 28,000 odd undergraduate students of the University. Representatives from every college and faculty are elected to SAC; they exist to represent your opinions and work on projects to benefit you.

SAC's existence is based on the premise that U of T students share a variety of common interests: teaching quality, student housing, and the rising cost (both direct and indirect) of post-secondary education. This year, SAC is particularly concerned with inadequate student assistance, the general deterioration in the quality of education due to insufficient government funding and student unemployment (both summer and graduate).

As well, our common interests as students extends into the field of services. SAC offers to its members a comprehensive array of programs: concerts at Con Hall, legal aid, ski days and weekends, weekly pubs, student directories, speakers, riding stables, and events of interest to women.

SAC is your student organization. Working together, we can make the University of Toronto a better place.

Engineering Society

Student Government

Mention those two words in public, and chances are you'll conjure up images of LSD-tripping radicals wearing old leather sandals, ripped jeans, and rump-length hair. But such is not the case here at the UofT, or at least not at the Engineering Society (more commonly called the Eng Soc).

Since the UofT is larger (in population) than most cities in Canada, it naturally requires some form of government to ensure that matters run smoothly. At the university level, we have the Governing Council which covers the administration, and the Students' Administrative Council (SAC) which deals with student matters. In the Engineering faculty, we have the Faculty Council to worry about administrative matters, and the Eng Soc to serve the students. While SAC and the Governing Council are important bodies, not only to the university as a whole but also to the students in Engineering, it is the Eng Soc and Faculty Council which are the most closely concerned with matters that affect us directly.

The membership of the Faculty Council consists of various faculty representatives and a student representative from each class in Engineering, and the student representatives on the Faculty Council are also members of the Eng Soc council.

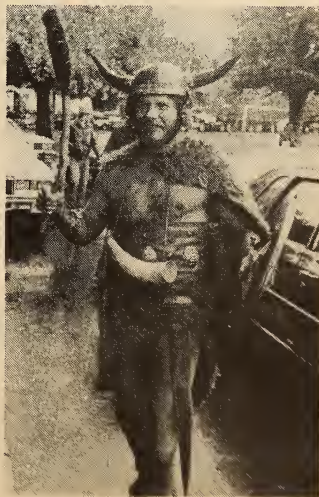
By registering in the Faculty of Applied Science and Engineering as a full time undergraduate student you become a member of the Engineering Society. If you by chance happen to graduate, you become a life member of the Society.

The Engineering Society Council consists of Class Representatives elected from among the students in each of the Second, Third, and Fourth Years of each Program in the Faculty, Class Representatives elected from each First Year Group, undergraduate representatives to Faculty Council elected in the same manner as the Class Representatives, Chairmen of the nine Affiliates (The University of Toronto Engineering Athletic Association, the Civil Engineering Club, the Geological Engineering Club, the Mechanical Engineering Club, the Industrial Engineering Club, the Engineering Science Club, the Chemical Engineering Club, and the Metallurgy and Materials Science Club), the Engineering Representatives to the Students' Administrative Council and the President, the Vice-President, Administrative and the Vice President, Activities.

There is an Executive Committee of Council which is responsible for recommending general policy to Council, for providing the means of implementation of legislation passed by Council and for supervising the duties of Society Employees. The Executive Committee of Council is responsible to Council, and only in extraordinary circumstances may it act on its own authority. Each year, Council appoints individuals

to fill numerous positions among which are the Toike Oike Editor, the Manager of the Stores, the LGMB Leader, the Chief of the Brute Force Committee and the Cannoneer.

The most visible activities of the Council are the social activities of the Council are the social activities. The Flrosh Orientation program is an example, Oktoberfest, the Cannonball in January, the Grad Ball in March. On top of this there is the Broadway quality show, "Skule Nite." Other famous events are the Chariot Race (on or near Groundhog Day) and the Slave Auction. The LGMB and the BFC are two very important wings of the Eng. Soc. No official opening ceremony in Toronto is complete without the Band and the Cannon. The BFC can be found performing numerous acts of harmless fun around campus. Another very important part of the Eng Soc is the Stores. This is where students get their Skule supplies at reasonable prices. It's a non-profit set-up so take advantage of it. Details on all these things can be found in other sections of this handbook. Engineering students who sit on the Faculty Council and its committees can have great influence in the way the faculty is administered. It is a responsibility and one that is not to be taken lightly. Questions as to the nature of course content, marking regulations, timetabling, examination procedures, among numerous others are brought up constantly.





The Blue and Gold Committee is that division of the Eng Soc reserved strictly for fun and games. The Blue and Gold Committee has the job of organizing Slave Auctions, The Chariot Race, Gang Bang, and many other activities including the BNAD and this week of F!rosh Orientation.

If you would like to help out in the planning and subsequent execution of these Skule activities, and the continuation of the Engineers' world renowned SKULE SPIRIT, you can get involved by calling the committee chairman, Ofer Pittel at 223-7259 or by leaving a note in the Blue and Gold box in the Stores.

PS: The Blue and Gold Committee is in no way affiliated with the BFC which does not exist, has never existed, and will never exist.

B L U E & G O L D



Social Committee

The Social Committee is the branch of the council concerned with the arrangement of events for engineering undergrads during the Skule year. The committee, under the direction of Lynn Wizniak (this year's Chairman) is responsible for the organization of Oktoberfest, the Rites of Spring, and several other events.

Cannon ball will be an especially gala event this year since the committee (and the Eng Soc council) has decided to hold it a hotel and are arranging to make it the social event of the Skule year.

If you have any ideas on how to make this year fun or would like to help, leave a note in the Social Committee box in the Stores or call Ella at the Stores and leave a message. The number is 978-2917.



Communications Committee



Engineers at the University of Toronto have a tradition and a legacy. This year the yearbook, *The Book of Skule*, will probe the background of the Engineering Society and its activities in order to show the members of the faculty the hows and whys of their interaction with Skule.

With our eyes set toward the future, our heritage often becomes obscure. People and events are

forgotten as quickly as the dust settles. This leaves every member of the faculty, each of whom is essentially a member of the yearbook staff, with the responsibility of making conscious efforts to tell the rest of Skule of their experiences in the faculty through graphic, literary, or photographic means. A yearbook is worthless if it only recalls what others have done. The book attempts to represent the spirit of Skule but is it up to each member of the faculty to show some Skule spirit.

The Communications Committee irresponsibly publishes any articles related to engineering, and some that are related to humour. The best known of our non-antagonistic publications, the *Toike Oike*, is joined by the *Cannon*, which accepts both technical and informational articles. The most important service of the committee is keeping You informed of engineering and campus events. This is succeeded in large by the bi-weekly *Tiny Toike*. If you would like to join the committee, or have something you would like published, or would like to help spread the gospel, then just drop by the stores and talk to Ella. (Just say Randy and Alan sent you!)

Alan Lechem

Women's Committee



Elizabeth wouldn't tell us what they're up to, so we have to guess. The **Women's Committee** usually organizes a wino and cheese party in the fall, and a wino and feed party in the spring. As well, they sometimes bring in speakers on various interesting topics. Sometimes they pull the pants off sailors.

One of the typical problems faced by the woman in Engineering is where to find a washroom within five minutes' walk of her next lecture.

It was a gargantuan task, but we've finally located them all:

Wallberg: 109B-C, 252B, 053A
Sandford Fleming: 101A, 040
Rosebrugh: 302
Engineering Annex: 102, 202A, 307
Mechanical: 132, 321
Haultain: 308-A
Galbraith: 209-210-A, 005A

Professional Development Committee

Early in January, the members of the Professional Development Committee were in Edmonton to attend the 12th Annual Congress of Canadian Engineering Students. The theme of this year's congress was "The Engineer and the Corporate System" and the programme included a number of speakers from industry pointing out the possibilities for the career development of an engineer after university. Opportunities in consulting, management, research and government were discussed. While in Edmonton, committee members toured a Stelco plant, the city's water treatment facility and took side trips to the Syncrude project in Fort McMurray, and an open-pit coal mine in Wabumum.

Next year's conference will be hosted by Queen's University in Kingston and its topic is "Engineers in a Government Environment."



Employment Committee



SUMMER EMPLOYMENT

To get you through eight months of Skule, you need to have a certain amount of money. And unless Daddy is willing to pay, or you make a habit of winning lotteries, you will undoubtedly have to have a summer job.

An aid to finding a suitable job is the U of T CAREER COUNSELLING AND PLACEMENT CENTRE. Read their following guide and help yourself find a job in the summer of 8T1.

Later on this year, job listing of interest of engineers seeking summer or permanent employment will be posted in the Stores. This means that you will not have to walk up to Bloor and Spadina as often.

Also this year, a suggestion box will be placed in the Stores for your ideas, suggestions and grievances.

Have a good academic year and happy job hunting.

Tom Lavrih
Employment Committee
Chairman 8T1



First Year Committee

First Year is so much fun that some people come back to do it a second time. The **First Year Committee** is the group who sees to the full distribution of such fun.

Early in September, each Flrosh teaching group will elect one of their classmates to represent them on the Engineering Society Council. Representatives will be chosen to sit on Faculty Council in a similar manner. These are the dedicated and tireless new Skulemen who comprise the First Year Committee. They elect from their number one supreme leader, the First Year Chairman, who is privileged as a member of the Executive Committee of the society.

It is the duty of this group, under the leadership of its Chairman, to inform the Plebeian hordes of up-cumming Society events, to instill a healthy amount of Skule spirit, as well to plan and execute numerous Engineering events intended to introduce Flrosh to Skule life.

Flrosh traditionally have been involved deeply in the Chariot Race, several pubs each year, the Slave Auction, Oktoberfest, the Cannonball's Intercourse Competition, and sports, not to mention BFC Capers. So we won't. Aside from these more traditional events, each year the Committee tends to try to leave its own lasting impression on the traditions of the Society.

For instance, this year major inroads were made in the development of better control methods for the Flrosh pub. It was found that the original issue of steel clubs with spikes to quell the over zealous resulted in some amount of overkill, and marshalls were reissued with rubber clubs instead. Not only did the Flrosh mortality rate sharply decline, but attendance at pubs increased by one.

Seriously, the last Committee did a bang-up job, and we anticipate that this year's group will prove even more resilient. Many of last year's members are still active in other responsible areas of the Society. We think that this year, you can do as well. Cum on out and contribute - it's for your own increased enjoyment!



Fourth Year Committee

The Fourth Year Committee of the Engineering Society is responsible for the planning and coordination of various events and functions for the fourth year graduating class. The committee consists of a committee chairman, the eight club chairmen, and any interested fourth year students. This year's lineup is: Fourth Year Chairman, Brian Baetz; Civ Club Chairman, Martin Scott; Chem Club Chairman, Richard Brown; Elec Club Chairwoman, Dana Stonkus; Eng. Sci. Chairwoman, Pat Borchart; Geo Club Chairman, Karl Jansons; Industrial Club Chairman, Joe Valerio; Mech Club Chairman, Roman Martiuk; and MMS Club Chairman, Paul Kolisnyk.

These people will help to organize and inform their classes of the following events:

- 1) Grad Photos - Composite photos of the members of the graduating class will be taken by Brian Toll, starting September 8th in the stores
- 2) Engineering Talks - Representatives from the Engineering alumni and APEO will speak to individual classes during the spring term
- 3) Iron Ring Ceremony - Members of the graduating class will receive their iron rings at the secret Kipling ritual to be held towards the end of the spring term
- 4) Grad Ball - This is the celebration after four years of problem sets and hard work. Grad Ball 8T1 will be held at the Harbour Castle Hilton on March 21, 1981. The committee is working hard to make this the most memorable night ever.

This year's committee is looking forward to the upcoming year, and will strive to make it successful in an academic, social, and professional sense.

Brian Baetz
(CIV 8T1)

The APEO Code of Ethics

GENERAL

1. A professional engineer owes certain duties to the public, to his employers, to his clients, to other members of his profession, and to himself, and shall act at all times with:

- (a) fairness and loyalty to his associates, employers, clients, subordinates and employees;
- (b) fidelity to public needs; and
- (c) devotion to high ideals of personal honour and professional integrity.

DUTY OF PROFESSIONAL ENGINEER TO THE PUBLIC

2. A professional engineer shall:

- (a) regard his duty to public welfare as paramount;
- (b) endeavour at all times to enhance the public regard for his profession by extending the public knowledge thereof and discouraging untrue, unfair or exaggerated statements with respect to professional engineering;
- (c) not give opinions or make statements on professional engineering projects of public interest that are inspired or paid for by private interests unless he clearly discloses on whose behalf he is giving the opinions or making the statements;
- (d) not express publicly, or while he is serving as a witness before a court, commission or other tribunal, opinions on professional engineering matters that are not founded on adequate knowledge and honest conviction;
- (e) make effective provisions for the safety of life and health of a person who may be affected by the work for which he is responsible; and at all times shall act to correct or report any situation which he feels may endanger the safety or the welfare of the public;
- (f) make effective provision for meeting lawful standards, rules, or regulations relating to environmental control and protection, in connection with any work being undertaken by him or under his responsibility; and
- (g) sign or seal only those plans, specifications and reports actually made by him or under his personal supervision and direction.

DUTY OF PROFESSIONAL ENGINEER TO EMPLOYER

3. A professional engineer shall:

- (a) act in professional engineering matters for each employer as a faithful agent or trustee and shall regard as confidential any information obtained by him as to the business affairs, technical methods or processes of an employer and avoid or disclose any conflict of interest which might influence his actions or judgement;
- (b) present clearly to his employers the consequences to be expected from any deviations proposed in the work if his professional engineering judgement is overruled by non-technical authority in cases where he is responsible for the technical adequacy of professional engineering work;
- (c) have no interest, direct or indirect, in any materials, supplies or equipment used by his employer or in any persons or firms receiving contracts from his employer unless he informs his employer in advance of the nature of the interest;
- (d) not tender on competitive work upon which he may be acting as a professional engineer unless he first advises his employer;
- (e) not act as consulting engineer in respect of any work upon which he may be the contractor unless he first advises his employer; and

(f) not accept compensation, financial or otherwise, for a particular service, from more than one person except with the full knowledge of all interested parties.

DUTY OF PROFESSIONAL ENGINEER IN INDEPENDENT PRACTICE TO CLIENT

4. A professional engineer in private practice, in addition to all other sections, shall:

- (a) disclose immediately any interest, direct or indirect, which might in any way be construed as prejudicial to his professional judgement in rendering service to his client;
- (b) if he is an employee-engineer and is contracting in his own name to perform professional engineering work for other than his employer, provide his client with a written statement of the nature of his status as an employee and the attendant limitations on his services to the client. In addition he shall satisfy himself that such work will not conflict with his duty to his employer;
- (c) carry out his work in full compliance with the appropriate Performance Standards for Professional Practice as may be published from time to time by the Association of Professional Engineers of Ontario;
- (d) carry out his work in accordance with applicable statutes, regulations, standards, codes, and by-laws; and
- (e) co-operate as necessary in working with such other professionals as may be engaged on a project.

DUTY OF PROFESSIONAL ENGINEER TO OTHER PROFESSIONAL ENGINEERS

5. A professional engineer shall:

- (a) conduct himself towards other professional engineers with courtesy and good faith;
- (b) not accept any engagement to review the work of another professional engineer for the same employer except with the knowledge of that engineer, or except where the connection of that engineer with the work has been terminated;
- (c) not maliciously injure the reputation or business of another professional engineer;
- (d) not attempt to gain an advantage over other members of his profession by paying or accepting a commission in securing professional engineering work;
- (e) not advertise in a misleading manner or in a manner injurious to the dignity of his profession, but shall seek to advertise by establishing a well-merited reputation for personal capability; and
- (f) give proper credit for engineering work, uphold the principle of adequate compensation for engineering work, provide opportunity for professional development and advancement of his associates and subordinates; and extend the effectiveness of the profession through the interchange of engineering information and experience.

DUTY OF PROFESSIONAL ENGINEER TO HIMSELF

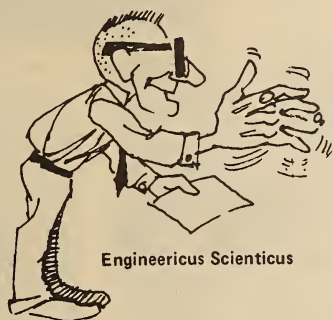
6. A professional engineer shall:

- (a) maintain the honour and integrity of his profession and without fear or favour expose before the proper tribunals unprofessional or dishonest conduct by any other members of the profession; and
- (b) undertake only such work as he is competent to perform by virtue of his training and experience, and shall, where advisable, retain and co-operate with other professional engineers or specialists.

COURSE CLUBS



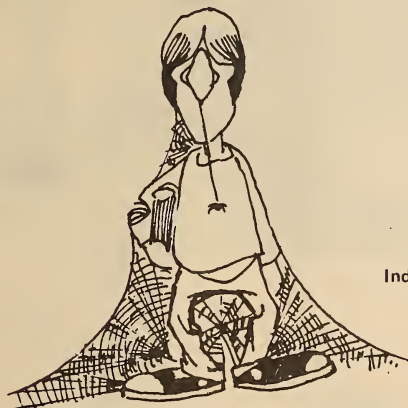
Electrocutus



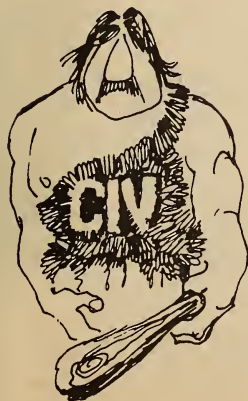
Engineericus Scienticus



Chemicus



Industrius



Civitus



Geologicus



Mechanicus

Smokers



Smokers are the Engineering equivalent of a block party, with everyone in your department invited to join in and have a good time. Although the content of the basic smoker varies between departments, all smokers have three things in common: cheap beer, a chance to meet and talk with your profs and a lot of fun.



Chem Club



All students of Chem Eng are members of the illustrious Chemical Engineering Club. The Chem Club is headed by an eight person executive which is responsible to the needs and interests of Chemical Engineering students like yourself.

The Chem Club is the most socially active group in the faculty (rumour has suggested that it is due to the large numbers of women in Chem Eng). The Chem Club's list of activities needless to say, is very large. Five smokers are run by the Club each year where you can meet and talk with your professors and friendly upperclassmen in an informal atmosphere. The Club sells your favourite brand of brew and yummy sandwiches at bargain basement prices. We also

organized two Dinner and Dance affairs which have traditionally been well attended by both students and staff. In January or February when the summer job market gets hot for Chemical Engineers, we hold a Careers Night where chemical engineers of industry and former students explain what it is they actually do, so come out and find out what the next four years are actually about.

The Chem Club also organizes tours to various chemical plants and this year we are hoping to send some third and fourth year students to Edmonton for the annual Canadian Chemical Engineering Conference, where they will attend student seminars. Since Chemical Engineers like to do other things besides bending their elbows and using their brains, the Club also organizes hockey, football, volleyball and baseball tournaments.

All Chemical Flrosh are most welcome to participate in any Chem Club event that are announced on posters placed throughout the Wallberg Building. I should also add that the Chemical Engineers are the proud owners of the most spacious and comfortable common rooms in the faculty, so come in and buy a pop from our machine and have a chat with your fellow Chems.

Remember that the Chem Club is run for your benefit and if you have any comments or questions, drop in on our plush executive suite on the third floor of the Wallberg Building by the Fizz Chem Labs, or leave a note at the Chemical Engineering office.

Richard Brown
Chem Club Chairman



Civil Club

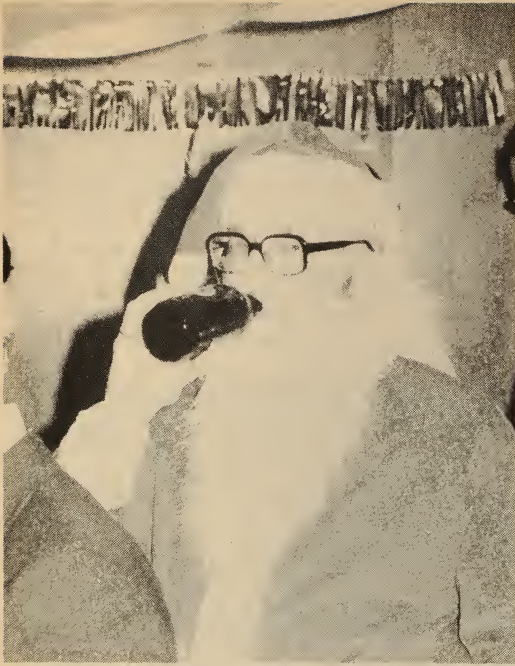
The Civil Club caters to the needs of all Civil Engineering undergraduates. Each year the Civil Club is responsible for organizing smokers and other social events where guest speakers and general good times evolve.

Due to the unfortunate mishap of a few years ago (the Sir Sanford Fleming fire), the Civil Club does not have a common room. Instead the Civil Club does have an office in the Galbraith Building. I strongly urge anyone who wishes to voice an opinion to come to our office on the first floor. It is located in GB138.

This year the Civil Club will be involved in many social activities. Some of these include: Flrosh smoker, Career Night, Chariot Race, Civil Dinner and assorted other smokers.

I would like to remind everyone that in the Civil program that you are automatically a member of the Civil Club. Therefore, if you would like to make suggestions for some events — get involved and come out!

Martin Scott
Civil Club Chairman 8T1



Elec Club

All members of the Electrical Club are invited to participate in the many events organized and supported by the Electrical Club, and, all Electrical Engineers are members of the Electrical Club.

There will be pubs, barn dances, smokers, hockey, football, and other athletic and recreational activities. As well, there are a variety of campus activities that Electrical Engineers are expected to shine in, Chariot Race, Cannonball Intercourse Competition, and (excuse the pun) Shinerama. We'd also like to see one of our beautiful Electrical women win the title of Miss Cannonball.

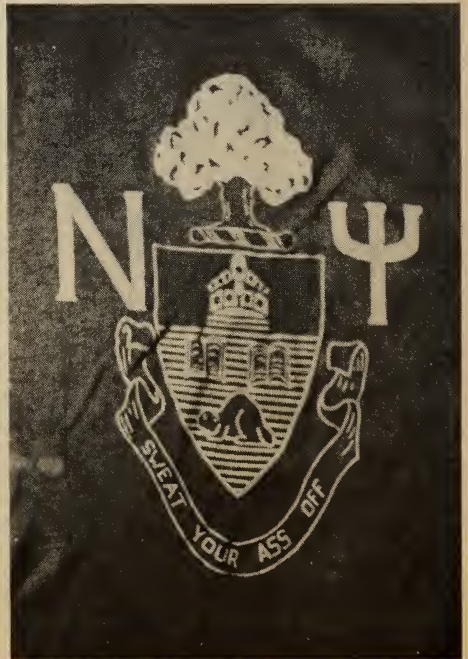
UofT's chapter of the IEEE (I triple E) has a workshop on the third floor of the Engineering Annex called the McNaughton Centre, that's well equipped for the use of IEEE members. It's easy to join.

The year holds many events of competition or relaxation with fellow students and staff. These are made possible for you, by you, so participate and enjoy.

Eng Sci Club

SUX

That about sums it up.



Ind Club

The Industrial Club (hereafter known as the 'Club') includes as its members all students enrolled in the Department of Industrial Engineering (or in semi-Latin, Engineericus Industrious). At this point, then, I would like to welcome all members to the Club and hope to do this in person at various social events the Club will be putting on in the upcoming year.

The Club's common room is Room 207 in the Rosebrugh building where all members are more than welcome. I hope that you come to your room to relax, talk to upperclassmen about course selections, and discuss any other questions you might have about your chosen (?) area of study. Also located in the common room is the Club's new Coke machine.

Some events the Club is planning for the upcoming year will include;

- 1) At least two smokers, which are informal meetings between professors and students (in the Club and also grad students) with plenty of good foreign beer (Labbatt's is based in Montreal), ripe bananas and more. They will be held during the scholastic year.
- 2) A hockey tournament between the four undergrad classes and a team of grad students plus professors is planned. This five-team spectacle is planned tentatively for mid-January.

3) Employment talks will be organized in conjunction with the University Placement Centre.

4) We are planning an updated version of the Club's winning chariot of 1979 (which was unjustly disqualified last year). You will be hearing more about this event known as the Chariot Race.

These are the main activities that are planned. Other events are in the works and will be advertised in the Rosebrugh building.

The new chairman of the Department of Industrial Engineering is Professor P.J. Foley, but he will be on sabbatical for the 80/81 school year. The acting chairman is Professor R.W.P. Anderson. Their offices are on the second floor of the Rosebrugh building. Both professors are very personable people and are glad to field questions, listen to comments and give assistance to all Club members.

In closing, I hope to have an enjoyable (I said, hope) year at Skule and look forward to answering any questions you might have and listening to your comments. Feel free to express your concerns to me by leaving them in my mailbox in the Engineering Stores.

Joseph Valerio
Industrial Club Chairman
and other Club members

Geo Club



This is the article for **Geological Engineering and Applied Earth Science**. Please keep editorial work to a minimum and don't cut a single idea.

[OK by me — it's just the way you wrote it. Ed.]

Welcome to the illustrious department of Geological Engineering and Applied Earth Science (I don't know what the last bit means) where men are taught how to, where to, when to and why to play with their rocks. The difference between us and others is we get paid for it (eventually).

Now that I have gotten tradition out of the way with a rude comment, let's get serious for a moment. If you love the outdoors, nature, rain, wild animals, long hours, black flies, mosquitos and isolation, then option A, Exploration, is for you. On the other hand if you are fascinated by smelters, flotation machines, grinders, crushers, roasters, thickeners, systems, thin sections and semi isolation then option B, Minerals Processing is for you. Finally, not necessarily due to being the least, if you like subways, foundations, tunnels, pits, dams, highways and slope stability, then you're an option C man.

Regardless of which one is your bag, we're all in the same boat called "Rock." We may be small but we have guts and we have spirit.

Again welcome to OUR department and any questions are welcomed by me. Good Luck and hope to see you, whether it be on an outcrop, through a microscope or in a tunnel.

Korlis Jansen

Mech Club



The Mechanical Club is the centre of all intelligent life on the campus. As a Mechanical Engineer, you are a member of this elitist organization and have the opportunity to participate (and cum out (or in)) to the best social events on campus.

Among the cumming events are:
 1) the spiritually uplifting Mech dinner that will be held at Casa Loma this year.
 2) Nick/Colonial Nights!
 At these events the entire class (all four years) cums out for a few beer, song and nurses. (not necessarily in this order)
 EXP) Intercourse Competition
 All F! are required to try out for the team, our honorary judge S.C. will evaluate all, yes all! F! on the basis of merit as well as length. (Points will be awarded for friction factor, contact ratio and enthalpy of reaction)
 PIE) Chariot Race "We are the champions of the world..." Mechanicals consistently run away with the J.P. Potts trophy (probably due to the lack of washrooms in the Mech Club orifice)

Besides beer and sex and beer and more sex and even more sex, the Mechanical Club organizes Career Night where Engineers from Industry cum at the campus for sum beer and pizza (piece of what?) and tell us what it is like to work as an Engineer.

If anyone has any ideas, please submit them to the Mech Club box (no cum intended) or cum up to the Club orifice Rm. 313 in the Mech Bldg. (pun intended). Your beloved all powerful all knowing all blowing whimsical exalted majestic chairperson (Ed's note: He's bi) and saviour the left honourable Roman S. Martiuk 561237750, 10" will be pleased to consider any suggestions. Maybe

MMS Club



The latter involves province-wide treks to various plants to answer that age-old question—can a hangover be avoided by all-night binges? The MMS Club becomes an active part of a MMS student's undergraduate life.

The advantages of the microscopic (with respect to Mechanicals) student population of our department are more than scholastic. The MMS Club common room (WB 143) is a haven for all members, and is the envy of all other departments. The individual classes become tight-knit groups, and the MMS Club co-ordinates class competitions at various watering holes. Skule spirit is alive and kicking in MMS!

CONCLUSIONS:

1. The MMS common room is a great place to unwind; however, department membership is a pre-requisite.
2. The MMS Club definitely furthers the Skule life of all Metallurgy undergrads.

RECOMMENDATIONS:

All inquisitive F!rosh should seriously investigate the MMS possibilities.

PURPOSE:

To introduce the uninitiated F!rosh to the antics and adventures of the Metallurgy and Materials Science (MMS) Undergraduate Club.

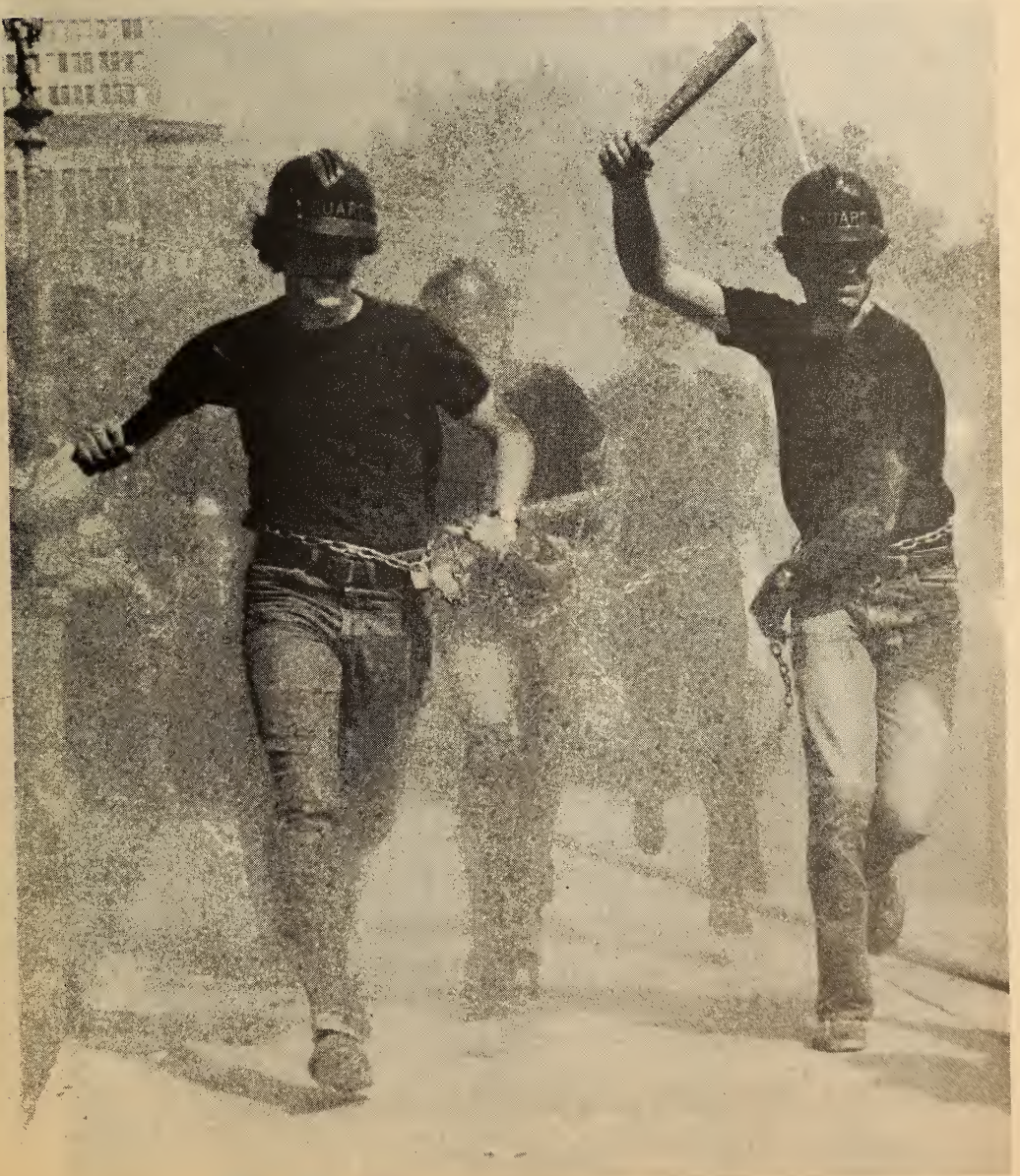
BACKGROUND:

Undergrads in Skule's smallest and best discipline take a holiday from the rigors of lab reports, problem sets, etc. in MMS Club activities. These include numerous smokers where one can shoot the breeze with the most loved (?) profs over numerous cool ones, club dinners and the infamous MMS Club Field trip.

Paul Kolisnyk
 Club Chairman
 MMS 8T1

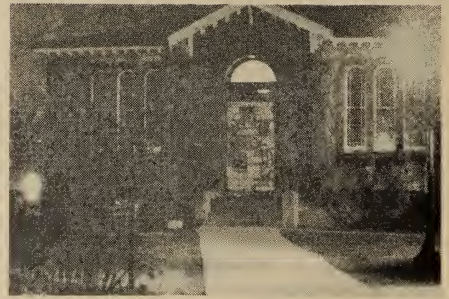
cc to all F!rosh

Skule Spirit Section





BFC





And it is written that each year the multitudes of Flrosh will each ask the timeless question: What is the BFC?

After giving each Flrosh the required kick in da balls, an upperclassman will invariably answer: "The Brute Force Committee!"

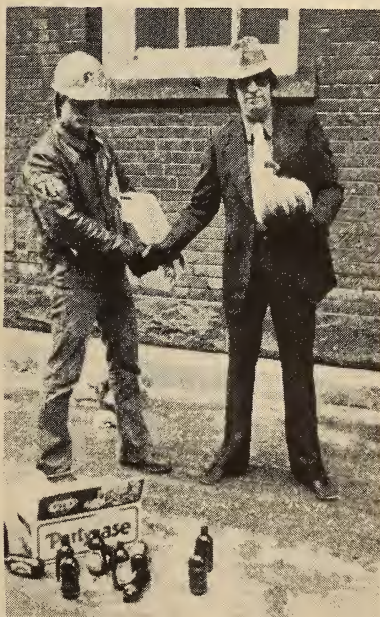
Yes, within the deepest bowels of the insidious ML building lies the orifice and centre of operations of the only organization known which can strike terror into every heart in the entire world. From this office, carefully disguised as an above average student store, a close knit cadre of fearless specialists direct an operation of unparalleled sophistication, with agents and operatives infiltrating every nuance of activity within and around their vast realm.

Under the leadership of their immoral CHIEF, six ministers rule the departments of DEF!ENCE, F!ACTOTUM, W!LDNESS, NOCTURNAL, IGNORANCE, and ASS. Each department is an unstoppable spearhead crew; together they form a committee of unlimited potential.

The BFC knows no bounds, as it continues its great quest to bring fun and frolic to less fortunate areas of the campus (and the world), scorning those who cannot laugh at themselves. The BFC seeks always to edify the Engineer and vilify the Artsie.

Informants and agents of the BFC are located everywhere. Flrosh recruitments will occur in the first few days of Orientation Week. If you can't find someone, leave your name and phone number in the BFC mailbox in the Stores. However, as Engineers, Flrosh must remember that the BFC does not exist, never has existed, and never will exist.

DA BOSS





CUM UND BE A BNAD

The BNAD doesn't discriminate against types of instruments, except that, if you can't carry it, it will probably be hard to take to most events. No one's managed a piano yet, but a few years ago we did have an electric bass guitar for a while.

Musical expertise is not mandatory, but a working knowledge of any instrument will increase your enjoyment of the Bnad's activities. If you can't play anything though, we can find you something to do.

If you're worried about taking a valuable instrument into a crowded football stadium, or are without instrument, the bnad will subsidize the renting of an strument.

Now you have no excuse for not joining the Bnad. You know it exists, and you know you are welcome, so drop up to the bnadroom and get your name on the list on the door.

If you come at the right time, who knows, you may be able to join a bnad-leader in a cold beer, for the first of many times during the year, if you keep showing up. To avoid inconvenience to those attempting to get to the Engineering Stores please form the line-up for Bnad membership down the stairs from Room 341 in the Metro Library and stay close to the wall.

See you soon.

Steve Roberts
Leadus BNADus





L G M B







Orientation



Shine on Harvey's Moon

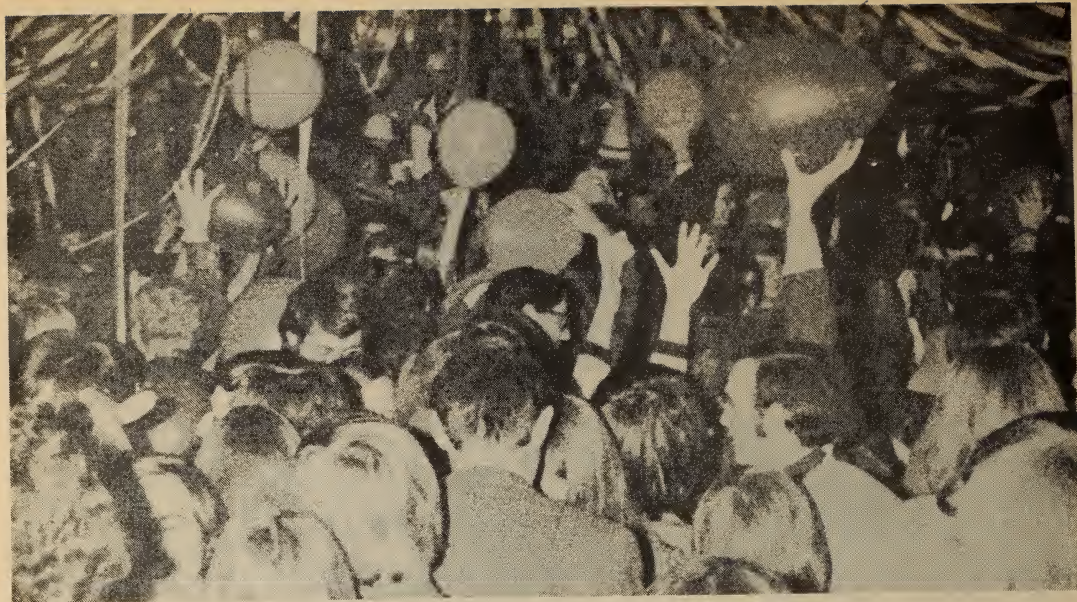


metro shinerama for cystic fibrosis research

Saturday Sept 13 9:00 A.M. King's College Circle
Everyone welcome afterwards to the Nursing Shiners
Celebration pub at the U.C. Refectory Saturday night

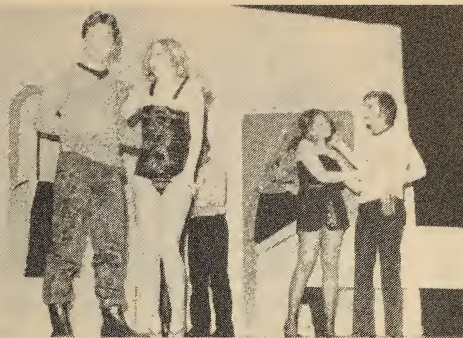
Homecumming and





Cannonball

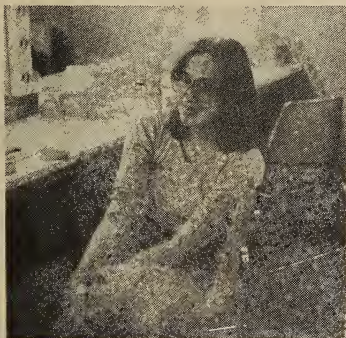




Who would have believed that Engineers had so much talent? Once again they have proven themselves vastly superior in the field of acting as anyone who saw Skule Nite 8T0 will attest to. Who could forget such classics as the Middle East Side Side Story, Cindericky or the Lawrence Welk Show?

Skule Nite, a rollicking musical comedy, is written, directed, and performed maily by Engineers (you don't have to be an Engineer to be involved). The show is performed in the Hart House Theatre in early February, but writing and planning are going on right now. If you want to get involved in any aspect of the show: singing, dancing, acting, the band, stage crew, sets and props, costumes, make-up, writing, production (the list is endless) contact Jan Piekoszewski (535-2802) or Graham Skells (249-5853) or leave a message in the Skule Nite mailbox in the Engineering Stores.

P.S. Anyone who gets involved should be prepared to attend the famous (infamous?) Skule Nite parties.



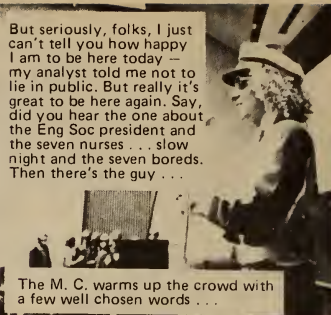


Hey, man — what's going on here?

I dunno.

Once upon a time in the mythical land of Skule, a group of Engineering students got together for some fun and games and general light-heartedness. They called it . . .

the Strip Show



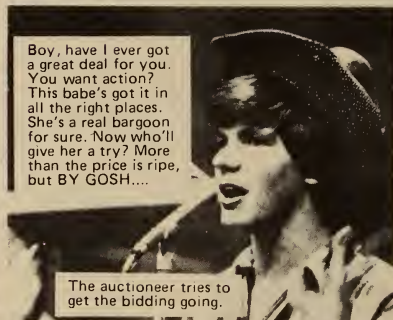
But seriously, folks, I just can't tell you how happy I am to be here today — my analyst told me not to lie in public. But really it's great to be here again. Say, did you hear the one about the Eng Soc president and the seven nurses . . . slow night and the seven boreds. Then there's the guy . . .

The M. C. warms up the crowd with a few well chosen words . . .



And soon they're rolling on the floor.

Have you ever tried suicide?



Boy, have I ever got a great deal for you. You want action? This babe's got it in all the right places. She's a real bargain for sure. Now who'll give her a try? More than the price is ripe, but BY GOSH....

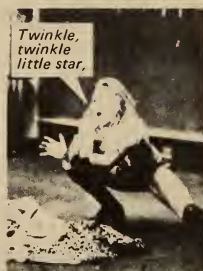
The auctioneer tries to get the bidding going.



Come on, cough up — can't you see the poor girl needs a bra?



All right, for ninety dollars I'll do my dance routine. And I'll even Sing . . .



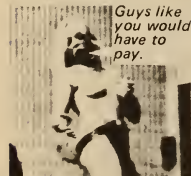
Twinkle, twinkle little star,



How I wonder who you are.



Though I seem so cute this way,



Guys like you would have to pay.



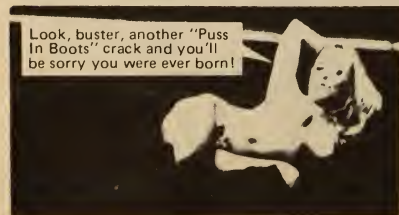
The crowd goes wild as Joe shoots . . . and he misses out again.

More!



Only in Canada you say — pity!

Oh YEAH!

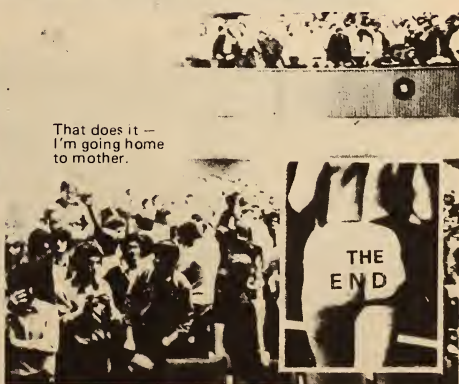
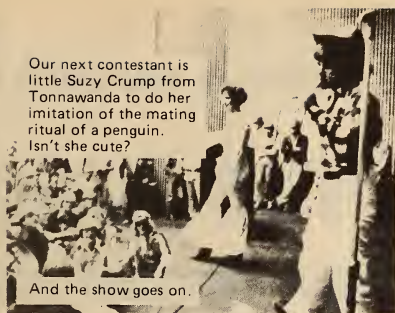


Look, buster, another "Puss In Boots" crack and you'll be sorry you were ever born!

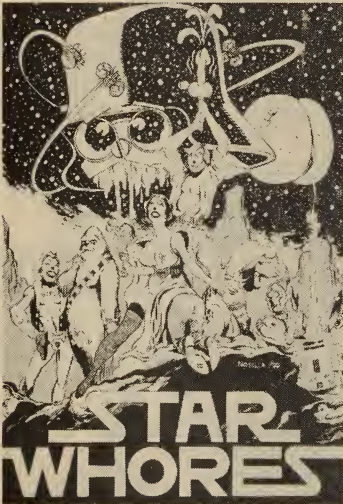


So THAT'S what they look like!!!

No kidding!



ToiKE *iKE



ROBERT REDFORD
JANE FONDA

8th Week!

HYLAND 1	ALBION 1	FAIRVIEW 2
YONCE AT ST. CLAIR 562-2856	ALBION HALL 8 PINE 242-0555	DOM WELLS-SHEPPARD 430-3333
ODEON - WESTON	PLAZA 2 - Oakville	HYLAND - Mimico
WESTON 330-0000	SPEED & KLEIN 547-7000	260 KING & WILSON 547-4477
ODEON - Burlington	DIXIE 5	MARKS
PHONE 534-4422	CLARK & COVE 270-8855	500 PM & 11:10



Are you interested in leaving a lasting impression on the UofT? Or are you just going to kick around Skule for four years until you hopefully graduate and leave nothing behind to let anyone know that you were even here?

There are two tried and true ways to accomplish your dream of immortality. The first is to get 95% or better marks in every term (and become a very boring person). The second, and far more enjoyable method, is to cum out and join the Toike staph.

The Toike has been published now and then for the past 69 years and this will be our 70th year of Skule Spirit.

To make this year a success we need your help. Don't worry if you can't write, just an idea or a funny line can be the start of a classic article. Cum on out to one of our make-ups. The food and beer is free and it's a great chance to meet other engineers and people from many other faculties.

This year we have four editors who will be each taking part in the production of our eight issues. If you are interested in finding out just how much fun the Toike can be, come to the first make-up (the Fl'rosh makeup) on September 12th. We hope to see you there.

P.S. The Toike is not sexist. We'll welcome anyone, whether they are a he, she, or an it.



The Cannon

Any smart Engineer realises he can't keep his nose to the grindstone and his finger to the calculator constantly. Distractions are necessary to preserve a certain sanity and a healthy perspective on just what is going on, hence the advent of extra-curricular activities. But many Skulemen and women forego the benefits of Skule interests because they fear they can ill afford time away from their studies. Don't you wish there was something you could spend some leisure time on, and gain valuable knowledge while doing so? Have I got a deal for you!

The Cannon began publication in 1978 as an informational and technical journal for the Engineering Society. We like to think of the Cannon as the intelligent and somewhat cultured brother of the Toike Oike. We don't pretend to rival Scientific American, but we do aim to provide the Engineering undergrad with up-to-date and interesting articles of a technical nature. Our focus is mainly on the events and research programs of our Faculty and the University.

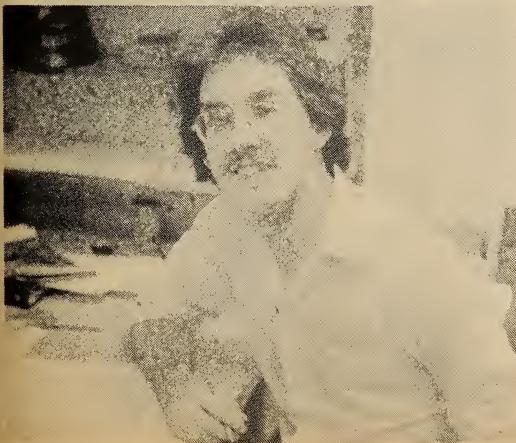
Topics to be examined this year: the functions of UofT's research institutes; employment prospects for Skule grads; interviews with famous Skule alumni; and reports on undergraduate, graduate and post-graduate research.

The Cannon needs help in all areas of research, writing, production, and publication. If you have a technical field of interest, feel free to submit an article. If you might enjoy talking to people and chasing a story, give us a call! We even need help cutting and pasting or laying out pages. If you've got experience, we need you. If you don't, you can learn quickly enough. We'll even train Civils and Mechs!

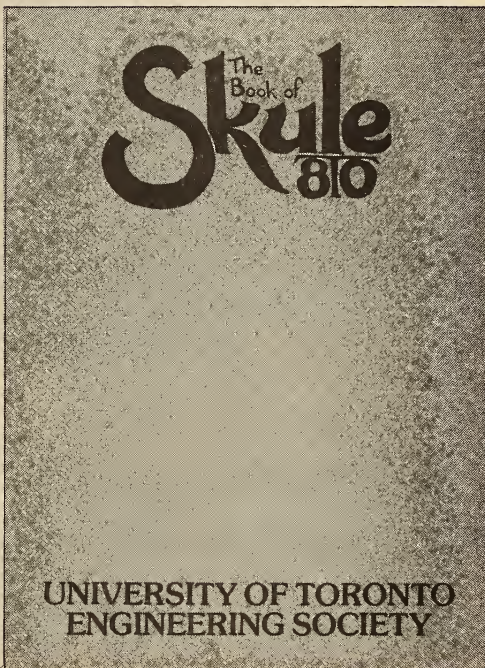
I hope to see you in the Cannon office, or hear from you through the Cannon mailbox in the Stores.

Good luck at Skule.

John Voss
Editor
The Cannon

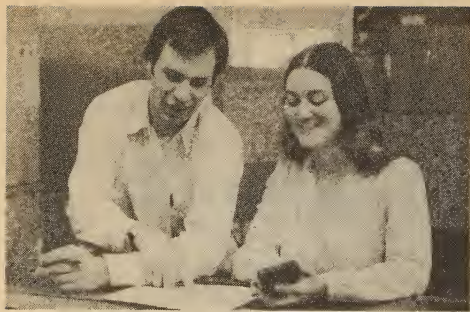


Skule Yearbook

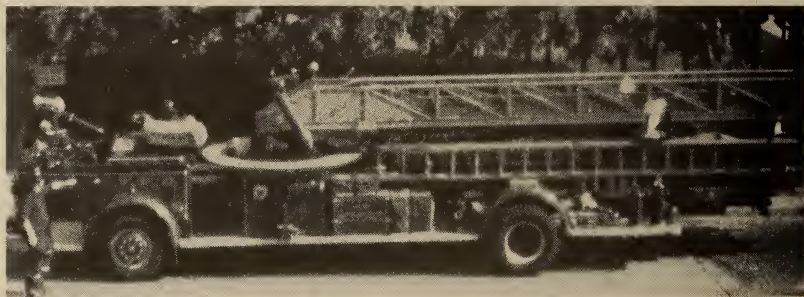


Engineers at the University of Toronto have a tradition and a legacy. This year the yearbook, The Book of Skule, will probe the background of the Engineering Society and its activities in order to show the members of the faculty the hows and whys of their interaction with Skule.

With our eyes set toward the future, our heritage often becomes obscure. People and events are forgotten as quickly as the dust settles. This leaves every member of the faculty, each of whom is essentially a member of the yearbook staff, with the responsibility of making conscious efforts to tell the rest of Skule of their experiences in the faculty through graphic, literary, or photographic means. A yearbook is worthless if it only recalls what others have done. The book attempts to represent the spirit of Skule but it is up to each member of the faculty to show some Skule spirit.



Car Rally



Womens' Wino and Cheese





Chariot Race

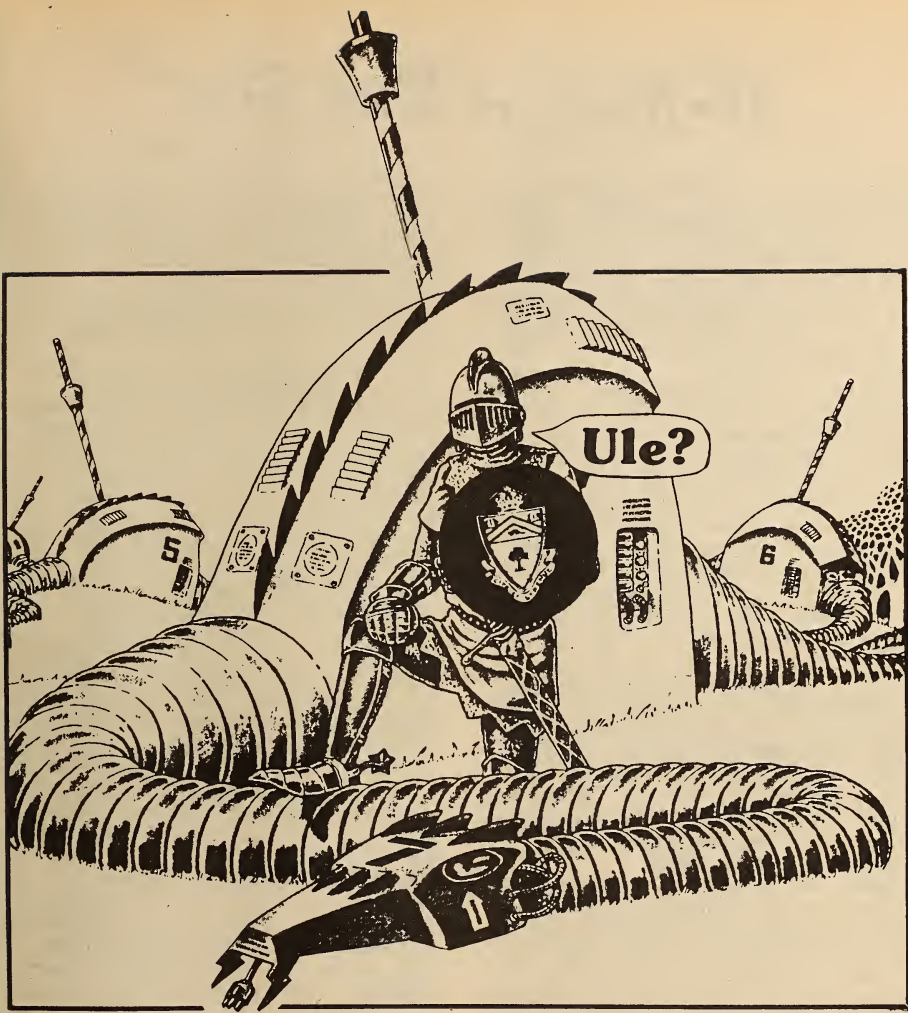


ACROSS CANADA



BEER AT ITS BEST





The Histories of SKULE

The History of Eng Soc

To start with, it is worth pointing out that Eng. Soc. is Canada's oldest engineering organization, having been formed in 1885, one year before the E.I.C. started up. Its first president was the then-Dean of Engineering, John Galbraith (named after the famous Engineering building) who held the office for three years. After him, the students took the job and the first undergraduate president was H.E.T. Haultain (also named after a famous building).

Originally Eng. Soc. was what is referred to as a "learned" society which had goals such as the encouragement of original research in engineering, the preservation of the results of the research, the dissemination of the results to its members, the cultivation of a spirit of mutual assistance and co-operation among its members in preparation for and in practice of the profession of engineering and to provide an official means of communication between the student body and the Faculty Council, the University authorities, and other student bodies. The latter two objectives weren't really dominant until after World War I.

There used to be regular meetings of students, graduates, staff members, and invited visitors at which technical papers were presented for discussion. In 1885 these papers were published in a pamphlet form called *Papers Read before the Engineering Society of S.P.S.* These and others became the start of the Engineering Society Library from which the Engineering Stores were to be born. Later these papers were renamed *The Transactions of the Engineering Society*.

By November, 1907, the name was *Applied Science*, and it was a full technical journal. By then the Society had grown from its original 35 members to 721. This journal ended in 1916, but the *Transactions of the Engineering Society* reappeared in 1920-21 along with the *Transactions and Yearbook of the Engineering Society*, which included a section on student activities.

These early beginnings fostered an atmosphere of co-operation between the staff and students of engineering. As early as the 1890's, through negotiation with the staff, the Eng. Soc. had permission to use regular class time to attend technical meetings of the Society, to have marks assigned to papers presented there by students, and do have these marks considered in the determination of honour standing.

In 1888-89 the Engineering Stores (then called the Supply Department) began as a small room to house books, papers and property of the Society. By 1891-92, it was selling drawing paper to students, and by 1908 it had a permanent secretary to buy and sell goods. Eventually it separated from the library and moved to room 19 of the SPS Building (the "Little Red Skulehouse"). Today it is in the Metro Library (3rd floor) and under student management, with a staff of one to three, depending on the time of year.

The Course Clubs as they now exist had gradual beginnings as the Society grew. Originally the course members would form debating clubs which eventually led to course clubs. The clubs are often associated with outside professional organizations, such as CSME, CSCE, IEEE, etc. The Eng. Soc. once sponsored a debating club which had intra-university and intra-year debates. Its members often joined the university debating teams and the clubs even used to offer the Eng. Soc. Cup for Skule's best speaker.

For a long time the Eng. Soc. has represented the student body's academic interests. It criticized the curriculum and staff long before students throughout the university became concerned with parity in governing the university. The Society's actions have been quiet but effective, as is attested to by the current representation of students on the Faculty Council.

The Eng. Soc. as you can now see has grown from a social sort of club to an active instrument of student government and representation, maintaining the strong links between the staff, students, and graduates of Skule.

The old Skule days were full of rivalry and capers. The freshmen used to have to wear distinctively colored ties; Skulemen wore green, UC had white with red dots, and Theology wore black. Bags of "tie scalp" were coveted possessions on all sides of these rivalries.

Capers were taken much more lightly in those days, as is shown by records of water floods at UC, cows in the draughting rooms (from the Medsies), Cannon thefts, and so on.

Music has long been in the hearts of engineers. In 1901 there were student singing and instrumental groups. The *Toike-Oikestra*, formed in 1911, died at the first World War, and rose again in 1919. The LGMB is a relative newcomer, having been formed in 1948. Originally it had about a dozen core members but has been as large as 250 at football games. Even the University's president, Sidney Smith, joined the bunch on occasion. The Lord Mayor of Coventry, England extended his formal greeting when he heard of the Band's formation. Today it is still its fun loving and merry-making self, now styled (from time to time) the "Triple Prize Winning LGMB."

The Chariot Races of today began as a part of an indoor festivity celebrating the Eng. Soc. Elections. The winners were awarded the *Jerry P. Potts Trophy* which still exists and is presented annually to this day. The contestants would balance on thunder pots with ropes on their handles. Today, of course, the chariots are somewhat larger and faster, and the riders more armoured.

So ends a brief summary of the history of Eng. Soc., as recorded in *Cold Iron and Lady Godiva*. You can see that it is a dynamic and ever changing organization which is run by and for students in Engineering. It's **your** society, so use it and support it.

The History of Ye Skule Cannon

INTRODUCTION

Undoubtedly there comes a time in every Skuleman's life when someone asks him about the famous Skule Cannon. Probably the Skuleman cannot say much about the famous Skule Cannon. Possibly the Skuleman wonders why there is a famous Skule Cannon.

Therefore, we proudly present a short Compleat Historie of Ye Olde Skule Cannon.

CHAPTER 1: YE REASON FOR BEING

Why, then, is there a cannon? The answer is quite simple. Engineers have always been associated with noise, so what better way than a cannon to symbolize Engineering? (A hydrogen bomb, obviously — but hydrogen bombs cost too much for the noise they make).

Since the time of William the Conqueror, the title 'Atillator' has been given to the man responsible for maintenance of defense works and weapons of war. The title was synonymous with Engineer and the word artillery was probably derived from it. The Atillator was responsible for the number of guns used, their storing, mounting, and protection. Therefore it is the duty of all engineers to protect the Cannon from the jealous hands of rival faculties, colleges and any other thieving perverts who would thus desecrate our everlasting pride and joy.

CHAPTER II: THE EARLY YEARS

The first cannons honoured with the title 'Skule Cannon' were those in front of Hart House. In 1929, an engineering caper resulted in the firing of one of the two. This, however, demonstrated only 50% efficiency as both cannons were supposed to blow.

In the early 30's another smaller 'cannon' would appear at Skule festivities and also roar, then mysteriously disappear. The authorities unsuccessfully attempted to track down this will-o-the-wisp. And in 1935, during a Slave Auction the cannon was fired on the steps of the Little Red Skulehouse with such force that windows were shattered. Once again it quickly disappeared.

In 1936, a machinist working in Civil Engineering was approached by some Engineering Society representatives who unofficially wanted to know if he would make them a cannon. Recognizing the considerable risk he was taking, but also realizing the dangers of students' experiments with explosives in water pipe, he decided to help. And so he fashioned a 10" barrel with a 6" bore from a piece of axle stock, and a base from a pillow block. All of this was accomplished in the four hours immediately preceding the Skule Dinner that evening. This secret too was well kept.

The design of this Cannon was a tribute to engineering technology for it was not only a devastating weapon but it was equipped with built-in camouflage. It

did not look at all like a cannon, deceiving any would-be kidnappers.

This fearsome weapon was used up until 1950 except for a few times in between 1941 and 1943 when a yacht gun was borrowed (really) from a machinist in the basement of the old Engineering building.

Naturally the unimpeachable appearance and worth of the Cannon was irresistible temptation for anyone who gazed in its direction, but especially to the feeble-minded persons in other faculties.

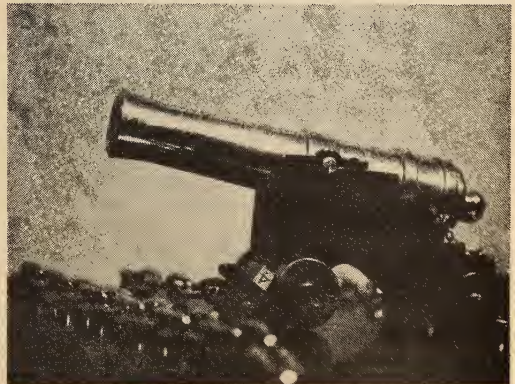
In 1941, UC stole it, but it was instantly returned. And in 1944, UC again stole it. With cries of war and plans for the elimination of the nuisance at the north end of the circle once and for all, but lacking evidence to prove that UC had stolen it, SPS undertook a restrained campaign to regain possession. This ended up as a series of ads in the Artsman's Gazette (sometimes called the Varsity, often called something else).

Naturally this campaign was a failure, as would be any appeal to an artsman's honour. On Feb. 13, 1945, UC Lit announced that the Cannon would be returned at the annual Arts Ball. The Toike, in a fit of editorial passion called it a dastardly plot... a black infraction of civil property rights. The Varsity (unbiased as usual) said it was in keeping with the Good Neighbour policy.

However, the hiding place was discovered and the Cannon was forcibly retrieved by a group of intrepid engineers. The Arts Ball was naturally a failure.

The Cannon once again returned to its job of banging at dinners, auctions and little old ladies. Plans were made to have it sent to Japan to assist in the Allied effort. The '49 chariot races approached, and in a spirit of pre-race heckling, the Cannon wandered about destroying everything in its path.

When the first heat was called, an earth-shaking blast reminiscent of Hiroshima and Nagasaki devastated the ears of all. And then it happened.



1,077 Meds and Premeds armed with scalpels, tear-gas, thigh-bones, trained white mice and a squadron of

bomber pigeons attacked in a screaming mindless mob. The battle raged back and forth, to and fro, until, finally realizing that they were hopelessly outnumbered, the Meds sent for reinforcements. Then the bomber pigeons finally made their mark on the three engineers, and the Cannon disappeared into the Meds building.

Negotiations went on for days as the respective values of the Cannon and missing Meds Society president Bob Hetherington were calculated by a federally-appointed mediator. After a few days of debate, the Cannon was returned, marred with a new inscription which read, 'Captured by MEDS 5T2, 3 Feb. 1949.'

On Christmas Day, 1949, there appeared on the doorstep of the Engineering Society a beautiful new weapon, showing excellent workmanship and engraved 'Skule Cannon.' It seemed Santa had a close friend, a fine machinist who had been working for the Department of Civil Engineering for a long time. In 1950 the Engineering Society honoured W.H. Kubbinga with a scroll extolling his loyalty, courage, and good conduct and made him an Honorary Member in Ye Ancient and Honorable Company of Skule Cannoneers with the rank of Sergeant Artificer.

The barrel was machined from a cold-rolled steel bar and had a 2" diameter, 11" length, and 6" bore. The carriage had wheels and was made from heavy steel. The Cannon weighed 20 lbs. Later on, the wheels and barrel were chrome plated.

One fall night in 1959, artsmen broke into the Engineering Store in an attempt to steal the Cannon. Believing that it was in a safe, they pushed the safe out a window and carried it away. However, their efforts were in vain and only the leniency of Skule kept them from enjoying an extended vacation (at government expense) in Kingston.

But where artsmen failed, Medsmen succeeded by deceit, as in 1959 the Meds once again made off with our precious tool.

To help publicize the blood campaign, the Skule Cannon appeared at the Blood Donors Clinic. It had been guaranteed safe conduct, so the Cannon was without its usual armed bodyguard and was attended by only two Skulemen. After a long battle the Medsmen overpowered the Skulemen and captured the Cannon.

We retaliated by kidnapping the Meds Society president. They retaliated by kidnapping an Engineer. We retaliated by kidnapping a Medsman, etc. etc. Finally when there were forty prisoners in the basement of the Sandford Fleming building the Engineers arranged an exchange of prisoners. As an added measure of security the Engineers invaded the Meds building, removed the cleaning staff, faculty and other debris, and boarded up the doors and windows. They waited. In the morning the Meds saw the light and returned the Cannon.

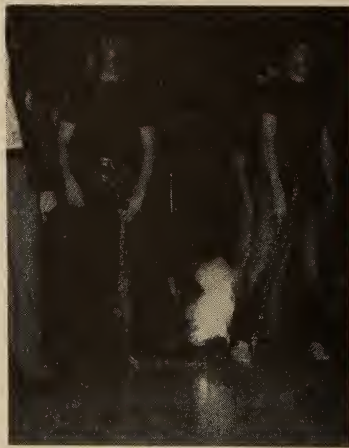
In their kindheartedness the Engineers gave the Medsmen a replica cannon, and they built a suitable trophy case for their prize. But in a masterful piece of Engineering subterfuge, this false cannon was removed from the case (without scratching the glass) and was promptly destroyed so that our Cannon was once again

the only one on campus.

Sadly, in 1959, the score of battles finally took its toll and our faithful Cannon had to be fitted with a new barrel. The new barrel was machined from a stainless steel bar with a length of 12", a diameter of 2", and a 6" bore. the barrel was initialised by Cannoneer Bill Riggs who also oversaw its construction.

In honour of the many battles on which the Cannon accompanied us, the 1950 Cannon was immortalized by placing it in the cornerstone of the new Galbraith Building.

The new Cannon was formally fired for the first time on the front campus in the autumn of 1959 and many Engineers and "others" turned out to witness this spectacular event.



It was next used in conjunction with the L.G.M.B. when the Engineers literally stopped the Homecoming show for ten minutes while a presentation was made to an ex-Skuleman. Needless to say, the large crowd (consisting predominantly of Arts types) was green with envy at the bold spirit and prowess of the Engineers and managed no protest other than a few feeble boos.

In the same year, a group from the B.F.C. (with the Cannon) paid a complimentary visit to the Victoria College Scarlet & Gold Dance. The Middlehouse Four were rendering a tender ballad at the time the gun discharged, and they were literally stopped dead in the middle of a verse by the thunderous roar which shook Alumni Hall. The B.F.C. then scattered leaflets proclaiming Skule Nite and Cannon Ball.

Also in 1959 on the day of the "At-Home," beatnik and Varsity types sitting in the U.C.'s J.C.R. were blasted. But this time the Skulemen stayed for a complete "Toike Oike," a "Beatnik Go Home" and more leaflets.

In 1963, when John Adam was Cannoneer, the Cannon Guard was given uniforms for the first time, based on an idea of Dave Morrison's. The red-helmeted Cannon Guard came into existence.

Also in 1963 the Cannon was heard in the Great Hall of Hart House, after a brief period of non-use. It was

also felt, as the dust and other debris that fell from the rafters attested.

On Sept. 23, 1964, the Cannon was fired in the Drill Hall at the Engineering Flrosh dance by Cannoneer Doug Macdonald. Linda Edwards, a nurse from Toronto General Hospital, was injured in the right arm by a piece of undisintegrated wadding from the cannon muzzle. She had been standing at least 25 feet from the Cannon compared with the recommended distance of 10-15 feet..She was taken to the hospital for treatment.

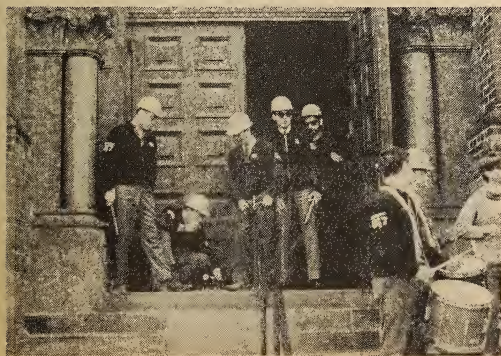
Further activities with the cannon were banned at the Dean's request, pending a series of tests to be carried out by Prof. MacElhinney of the Chemical Engineering Department, to determine a safe new loading procedure. In October, a letter was received from a law firm stating that it was their intention to file suit to claim damages on behalf of Miss Edwards. At this point, all plans for testing or firing the Cannon were suspended indefinitely.

Late in October, permission was obtained from the Dean and Warden McCulley of Hart House to fire the Cannon in the Hart House quadrangle to be recorded for the L.G.M.B. record, with the stipulation that Prof. McElhinney be there to supervise. The Cannon was fired twice on this occasion with different amounts of wadding each time. Scatter and disintegration patterns for the wadding indicated that the old loading method had been relatively unsafe and that some new method must be devised.

Just after the start of the New Year, the tests were completed and a revised loading procedure was developed. Black powder, by virtue of its dependability and insensitivity to packing pressure, replaced smokeless powder.

Since no more had been heard from the lawyers, and Miss Edwards and her family said they had no intention of suing anybody, the Dean lifted the embargo and the Cannon was fired for the first time in the lower gallery of Hart House at the Lady Godiva Memorial Bash.

On the day of the Skule chariot race, the Cannon was fired in the foyer of the Victoria College library. A strong protest was lodged as there was a funeral in Alumni Hall at the time.



CHAPTER III: THE CANNON STEAL

1967 was the year of Canada's centennial, but more importantly it was the year of the most infamous cannon steal of all.

Capitalizing on a lapse in security, a slimy duo made their move. With nary a drop of blood the Cannon was no longer in our possession. But these bold perverts could not possibly be anything but engineers, as exhibited by their recklessness and fearlessness. And grads at that. Their identity should be kept secret, as we engineers are known the world over as kind and considerate beings who never carry a grudge. Joe E. Skule only knows what the world would do if it were to find out that Mike Chapelle was the leader, assisted by Howie White.

The Cannon then made its way to the British Isles and on its way brought sadness where there was joy, and misery where there was happiness.

But be not disheartened for our Cannon was on the road to rescue. For six brave Engineering grads took it upon themselves to restore the pride of Skule to its rightful owners. The foolhardy mugwumps who would thus castrate Skule by removing its sacred 12 inches were tracked down, all the way to UC (oy) in England.

Nightfall came. Don Munro (ex-bandleader and Eng. Soc. president) and Fraser Dunford stole into Chapelle's room. With nary another drop of blood, Skule had its manhood back.

And then it was off to Coventry to pay homage to Godiva. The statue of Godiva was adorned with an Engineering jacket and the gay Engineers (woo) made merry (yes, a lovely girl) for they were overjoyed at the safe return of our blessed piece. But their partying was short-lived, for Chapelle followed them to Coventry to make one last attempt at regaining possession of the Cannon. However, the Skulemen outnumbered him and he backed off after some unpleasantness.

The Cannon was taken to Wales and from there back to Canada, but the Eng. Soc. wasn't interested in getting it back at the time. This was because they had had another Cannon built when they found out that the old one was stolen. Of course, the fact that an engineer stole the Cannon was very embarrassing and hence this whole theft was hushed up. The new Cannon was announced to the world to have been built in honour of Canada's centennial. In other words, Skule had two Cannons at once.

At any rate the barrel of the new Cannon was 11" long and had a bore of 5". The carriage was mahogany and was equipped with wheels. The barrel and wheels were chrome plated.

CHAPTER IV: THE MODERN ERA

With a spanking new Cannon, Skulemen's spirits were given a much needed lift (le hic). But 'twas barely a year old when another attempt was made to snatch our banger. This time an Industrial Engineer was the squirrely-eyed worm. He was unsuccessful in his attempt and spent the next few weeks as a guest of a Toronto hospital, courtesy of the Engineers.

The '59 Cannon made a brief appearance at the 6T9 Cannon Ball where it was fired by John Adam (Cannoneer '63). The '59 Cannon was then reported to

have formed the basis for the annual Skule Cannon Award. However, this was more fiction to cover up the '67 Cannongate.

The year of our Lord 1971 brought the first annual gangbang with the Ryerson engineers, to decide who had the better cannon. Needless to say, the Polytechs were sent scurrying home with their feet in their mouths. Not only did we annihilate them in the contest, but we stole their cannon and made off with their distributor wire to their bus.

With Skule's Centennial fast approaching, the Cannoneer decided that a new Cannon would be an ideal way to celebrate.

In great secrecy an emissary was sent down to Svart-alfa-heim (a kingdom below the earth where elves live) to commission Sindri (the creator of the mighty hammer of Thor) to machine the mightiest device ever imagined. With this task in mind Sindri stole the metal for the barrel from Thor's mighty underwear and the wood for the carriage from Thor's mighty platform shoes. From this he fashioned a most awesome machine. With a barrel 3" in diameter and a bore of 6", this master work of the gunsmith's craft would easily strike fear into the heart of any mortal.

The formal firing of the marvellous weapon was at the 1973 Centennial Ball and on the third try it actually did. Dean Ham, (now president), fired the 1967 Cannon for the last time and was then presented with it in honour of his retirement from the Deanship.

The new Cannon has enjoyed a period of relative tranquility since its creation, except at a Flrosh dance when it was stolen (by the LGMB) to scare the Cannoneer (who had carelessly left it unguarded in the band room).

In 1976, the Cannoneer Robert Gilmour defaced the Cannon. John Vanneste, a former Cannoneer, was called from retirement to fire the Cannon at the Grad Ball, since Mr. Gilmour had refused to do so — at his own Grad Ball! The Cannon was found to be badly corroded and in need of cleaning. When the barrel was removed from the base, Gilmour's name was found chiseled into the bottom.

The Engineering Society Executive passed a motion of censure against Mr. Gilmour, and the entire deed was exposed in the Toike Oike. Furthermore, at Vanneste's suggestion the Cannon Guard wore black hard hats for a year to show the Engineers' displeasure.

After a year of wearing black hardhats, the cannoneer decided that the black should be continued instead of the traditional red. He purchased a set of black T-shirts (which have not been washed since) and has thus created the new image.

In 1978, Ryerson again made a feeble attempt at outdoing THE MIGHTY CANNON. A message was supposedly left at the Eng. Soc. offices informing us that Ryerson was not cumming because of the rain. It was only after a phone call informing them that we had declared ourselves winners because of the no-show that the boys from Ryerson decided to appear. It was on that rainy day that 200 U of T Engineers and 5 Polytechs witnessed the second-ever gangbang. The judge from Ryerson, of course, fearlessly cast his support behind Ryerson's feeble imitation of our cannon and declared

the contest a tie (the best he could do with a straight face under the circumstances). The U of T judge unhesitatingly pronounced the mighty skule cannon superior.

And so the Skule Cannon demonstrated its superiority in yet another gangbang. Ryerson was let off easy. No one really was very interested in stealing the object of their audacity, and so they were allowed to return home with it intact.



CHAPTER V: CARE OF THE CANNON

When Skule's first Cannon was created, a Cannoneer was appointed in keeping with age old tradition. This Cannoneer would be responsible for the selection of the Cannon Guards, making sure that the Cannon actually fired, and to do the actual firing. In addition to this he would have sole knowledge of the location of the Cannon when not in use.

As a matter of protocol, the Cannon is lit with a cigarette butt after a convenient number of verses of Godiva. For the firing, black powder is used, and finely divided asbestos is used as wadding. This type of wadding replaced toilet paper in 1964 after the injury to the nurse.

The Cannon Guards are the black-helmeted beings who are always chained to the Cannon. They are trained to kill at the slightest provocation, to eradicate any ideas about stealing the Cannon. A full Cannon Guard is numbered four, though during the Cannon duels with Ryerson sixteen were used.

In 1959 an artificer was appointed by the Engineering Society to inspect the Cannon, issue powder and in general look after the material needs of the Cannon. However, he was quietly forgotten and perhaps needs to be revived.

We have a Cannon which, by virtue of the material used in its construction from the tip of its shiny brass barrel to its walnut chassis, will endure as long as Skule exists. Hopefully it will never leave us, and it need not, if caution, brute force and devious means are employed whenever it is used.

The History of the

Toike Oike, Toike Oike;
Ollum te Chollum te Chay.
School of Science, School of Science;
Hurray, Hurray, Hurray!

TOIKE

This is not Latin, but a strange sounding cheer penned by an engineer around the turn of the century.

There are several theories regarding the origin of the phrase "Toike Oike", but the following seems the most likely. In the late 1890's, Skule life was not quite the same as it is today. One of the major events of the year was the election of the Engineering Society President. Campaigning lasted for two weeks and everyone got into the election spirit.

In 1897 a young man named Ike ran for president. He had a catchy slogan - "Take ye Ike". Ike was a recent arrival from Eire and had a thick Irish accent. During an election meeting a group of Ike's supporters piled into the room imitating their leader's accent and chanting his slogan "Toike Oike, Toike Oike" ... And so a new phrase was started.

Even back then the engineers were infamous for their spirit. Near the turn of the century a contest was held to determine a school rugby cheer. The winning cheer was eventually to be included as part of the Engineers' Hymn and has since been passed down from class to class for eighty years.

Elections maintained their popularity and in 1911 it was decided that a paper was needed to give each candidate a chance to state his platform. The paper was to be published yearly and consist of four pages of election information. The first issue was put together by Professor Stile (OT7) on the weekend of March 4-5, 1911 and appeared to the students on Friday, March 10, 1911.

There was initially some discussion as to whether the title should be "Toike Oike" or "Between Puffs", but by the time the Society met to debate the matter, the paper was at the printers (thank God).

As every editor knows, whenever you have four pages to fill, you are supplied with three and a half pages of material and the discrepancy is not discovered until the midnight before the morning the paper goes to press. It is for this reason a filler file is maintained. Filler is material whose main purpose is to take up space. After a few years it was decided that a special publication was required to greet the incoming freshmen. The Dean, the Eng Soc President, the Course Clubs, and sports teams all had their own messages for these newcomers.

This second issue meant more material and consequently, more filler was required. Since the Toike was not a "news" paper, it was not restricted to serious filler. With the humorous material infinitely more interesting to the readership, jokes and cartoons became commonplace and people looked forward to the bits of humour between the information.

The engineers were well-known for their sense of humour. Their "Applied Science" column in the

Varsity often contained anecdotes or jokes about prominent campus figures. This contrasted with the seriousness of the Meds' and Dents' columns (and the rest of the Varsity).

Soon all of the major Skule events had commemorative issues and Toikes appeared four or five times a year.

On March 2nd, 1921, a very special Toike came out. It was the program for the first "NGYNYRS SPaSmS". The following year the title was changed to School Nite and a new tradition was started.

The Toike continued for over twenty years coming out "every now and then" at major events such as elections, orientation, School Nite and sometimes in between. There were no photographs in these early papers as a special (and expensive) plate had to be made to print them.

Finally in 1932 a plate of their Dean Mitchell was made. This they used faithfully in every freshman issue for many years. The only other photos appearing in the Toike were those supplied by speakers at the annual School at Home Dinner. The "at Home" was a dinner held for all Schoolmen at a classy restaurant and featured guest speakers from the world of engineering.

In 1941 the faculty was taken over by the military as an officer's training program and moved to Ajax. The Toike was stopped and replaced by the Varsity Ajax Division.

The war soon ended and the Toike and Engineering returned to normal.

By the late fifties the Toike was the most popular campus publication. While the other papers took themselves very seriously, the Toike was printing more and more humorous filler and its popularity grew among the non-engineers.

In 1963 a momentous decision was made. The new editor, L.R.X. Morris, decided to change the style and format of the Toike. He changed the emphasis on humorous material, so that it was along the lines of the Harvard Lampoon. Junking the old masthead, he had a friend design a new logo, replacing the O's with asterisks and introducing arrows to the paper. Instead of articles, he put artwork on the front page. This naturally led to front page parodies of popular magazines and newspapers.

The humour in these Toikes was mainly silliness and in the following years, the late sixties, when University students everywhere were getting "turned on" to grass and chemicals, there was almost no drug-related humour in the Toike.

In the early seventies, the Toike's humour took yet another twist. From silliness, they turned to crudeness. Articles intended to offend and appall the readers found their way into the paper. The results of the open racism and perversions were the public Toike burnings of 1973.

Since then the Toike has slowly tried to reverse this trend by inserting more sophisticated material such as full-blown parodies and more satirical humour.

Where will the Toike go from here? Your guess is as good as mine. Each year's issues bear the unmistakable stamp of their editor and who can tell what the coming editor (or editors) will bring?

The History of the LGMB

During the Second World War there was a munitions plant at Ajax; in fact the plant pretty well was Ajax. After the war ended, the University of Toronto used the shell-filling plant for a few years for teaching engineering, to ease the sudden post-war increase in enrollment, and the barracks served as residences for engineering students. In the fall of 1948, Engineering returned to the St. George campus and probably sometime during the '48-'49 Skule year the now world-famous Lady Godiva Memorial Band came into existence.

A.J. Paul LaPrairie (Mining Eng. 5T0) served six years overseas with the Irish Regiment of Canada, and on spending two years taking classes at Ajax among many other veterans, felt a "regimental" band was in order. Being the Direktor of Kultural Aktivites (an executive position in the Engineering Society — the present day equivalent in terms of function would seem to be a cross between Blue and Gold Chairman and BFC Chief) he undertook the founding of the Band. Through his contacts in the Irish Regiment he acquired the necessary accoutrements of any self-respecting world-famous band: scrounging Fort York and University Avenue Armouries and the Sally Ann at Church and King Streets turned up a collection of Irish Regiments tunics, some pith helmets, six dragoon's brass helmets, a drummer's leopard skin, two tenor snare drums, and most important, a bass drum with one head (the open side was used to stockpile beer while "on parade" — a modification which might well be worth considering for the present, in my estimation).



The actual date when the Band started is somewhat vague due to conflicting sources of information, but it would seem to have been sometime during the calendar year 1949; which Skule year, '48 — '49 or '49 — '50, is at present still uncertain. '49 — '50 seems to be more likely since they are first pictured in the 5T0

Yearbook, although A.J. Paul LaPrairie says it was the fall of 1948. In any event, the first rehearsal fielded about a dozen people from all years consisting of trumpets, trombones, saxophones, clarinets, one flute, two snare drums, and the bass drum (sounds disarmingly familiar) — a "motley" group at best. During the second practice it was discovered that LaPrairie could not read music, and he was demoted (or promoted perhaps) to bass drummer, and Tom Kenny became "Captain" for the '49 — '50 Skule year.

The name of the Band was devised at a group think session. Ideas were batted around and Lady Godiva Band was agreed upon. Bill Walker (later President of the Engineering Society) suggested the 'Memorial' part, and so it was. The Band was even recognized in a letter from the Lord-Mayor of Coventry. Other early and original members of the Band were Leon LaPrairie (Mining Geology 5T, (this was Paul's brother — one father, six sons, and one daughter graduated from Mining Engineering and Mining Geology at UofT), Glen Weaver (Civil 5T2), Earl Scott (Mech 5T4), Don Urquart (Elec. 5T4), Bill Elliot (Mech 5T5), Jim Montgomery, and Dick Walker.



Leon LaPrairie led the band in '50-'51 and Earl Scott led in '51-'52 and '52-'53. During Earl Scott's leadership, the Irish equipment, tunics and pith helmets were running out, so old gaudy clothes were taken to — a help since fights and dirty capers were frequent. Early capers and events were similar to those today: the Band performed in Skule Nites ('51-'52); raucous marches through U.C. and the Meds buildings during lectures were not unusual (not infrequent, at least); football games were a highlight where the LGMB competed aurally with the now defunct Blue and White marching band (the Blue and White's demise, incidentally, leaves the LGMB as the only band on campus which performs in any sort of official capacity — oh my!); the main bill of fare for the Band was performing noisy fanfares and such for events such



as the Chariot Race, the Slave Auction (rather unlike the Slave Auctions we are graced with nowadays), and when the Mighty Skule Cannon made an appearance anywhere.

Details of the Band's existence for the next decade or so are at present somewhat nebulous. After that period Don Monro was leader from '61—'62 to '65—'66 with Frank Dixon fronting for him in '63—'64 while he was President of the Engineering Society. The LGMB's first two LP records were produced by Don. The first was recorded live on November 30th, 1962, at the mighty Cannonball; it had to be re-recorded. However, when the tape machine broke. It was a financial success but otherwise a disaster. The second record was made in 1964 and was a musical success and a financial disaster. Fortunately the LGMBash was devised by Don and it made a fortune. The LGMBash has unfortunately fallen by the wayside, as have many similar events at the U of T. In 1965 the Band took first place for brass



and reed bands in the Kiwanis Music Festival (played in Massey Hall!). Don says the Band was in trouble **all** the time with everybody. His last caper made headlines when the LGMB attended the opening of the Bloor-Danforth line of the Toronto Subway (I should point out here that it is a well established fact that no event in Toronto is official without the LGMB in attendance). Unfortunately the opening turned into a closing and the Engineering Society was fined several thousand dollars as a result. Being an easily identified group, the LGMB was liberally blamed, even though they had nothing really to do with the electrical shutdown of the system. The most they did was enter the system without paying, but after all — why should the official band for an occasion have to pay to participate? It is only recently that the Band has been allowed to ride on the subway — the TTC officials even let us include subway concerts as part of our annual season concert programme now.



Bob Bossin (now leader of Stringband) was leader during the '66—'67 Skule year. Being enrolled in the faculty of music, Bossin was able to pad the Band with many ringers, although we don't view them as such now; the LGMB is much more the U of T's band now and membership is open to anyone. The third record was Made by Bob (a quasi-centennial project) and it included another prize-winning performance recorded live at the 1967 Kiwanis Music Festival.

John Pullam led the Band during '67—'68, and the big highlight that year was a trip to EXPO '67 — they were even invited to be there. Is nothing sacred? The Band also made a movie that year (strictly Super 8).

More recently, Jim Burpee (Mech 7T8) led the Band in '74—'75 and again in '75—'76 along with John Loach (Mech 7T7). Jim revived the Band from a slump in popularity which bottomed in 1973 — particularly odd, since '73 was the Centennial year for Engineering at the University of Toronto. The Band's popularity boomed

again and in 1976 the LGMB produced yet another prize-winning performance at the Kiwanis Music Festival with a band assembled for the occasion by John Loach (with a liberal sprinkling of John's friends in the Faculty of Music).

The Skule year '76—'77 saw Rob Yates (Elec 7T9) and Rob Ketchen (Mech 7T8) lead the Band through many memorable events, including the opening of the CN Tower, the opening of the Toronto Eaton Centre, and most important, the production of the fourth LP record. This record is now available at the Engineering Stores (plug, plug!).

It should be rather obvious to the reader by now that there are huge gaps in this chronology. I have not omitted material; I simply do not have any more yet. For some inexplicable reason, getting old LGMBeers to talk about their days with the Band is like getting blood from a stone (or intelligence from an Artsman). If prodded enough though, they do give in.



TOKE ORKESTRA, 1920-21

Back Row: P. S. Davidson, J. J. Crawford, H. F. Robertson, R. R. Parker, M. L. Rundle, Treasurer: F. J. Lavender
 Middle Row: R. K. Scott, G. A. Thompson, H. R. Fardon, T. M. West, Secretary: G. H. Vanden, Librarian
 Front Row: P. S. Edwards, L. J. Bonham, J. Buchan.
 Front Row: H. A. Jackson, J. R. Kirkconnell, S. R. Murhead, G. D. Maxwell, C. Hamilton, President and
 Conductor, H. G. Thompson, J. S. Mayberry.



The History of SKULE NITE

8:30 p.m., Wednesday March 2nd, 1921. The last few bars of the overture were barely audible as the thunderous applause of 1343 people opened the main curtain of Massey Hall. This marked the beginning of what was to become the "highlight of the school year" in not only the Engineering Faculty, but in the entire University. In its time it would become a full-length show running for as many as eight performances, drawing crowds of up to three thousand people, attracting the attention of the press, television, and theatre scouts from all over Canada. In the next fifty years out of this show would develop some of the best musical comedy that has ever originated in Toronto, including costumes and dance steps comparable to those of Flo Zeigfield, sets and technical innovations equal to the best of Hollywood in its late forties-early fifties prime, and a completely new form of entertainment that is said to have been the forerunner of television musical comedy shows like those of Toronto's own Wayne and Shuster, and more recently Rowan and Martin's "Laugh-In." Whether these statements are an exaggeration or not does not really matter. The fact is, they are the memories that remain with the thousands of actors, actresses, stagehands, directors, and audiences that have ever been a part of Skule Nite.

The origins of Skule Nite can be traced as far back as the early years of the century. At that time there was no show as such, but frequently students and professors would perform short skits and musical ensembles at social events during the year. In 1920 the Engineering Society Executive appointed a Stunt Night Committee to bring together all these scattered dramatic efforts into one show. As it turned out, there was so much interest in this idea that it was decided Massey Hall should be rented for the performance. On March 2, 1921 a thirteen act review called "NGYNRS SP.Sms." was performed with overwhelming success. The show included short skits such as "Laboratory Lapses" and "The Adventures of Chloreen," as well as musical and instrumental interludes all written and performed by schoolmen. A relatively new addition to the Faculty, the Toike Oikestra, an "All School" organization, who received the fruits of their labour, not in the form of cabbage and bricks, but in applause and appreciation."

Transactions, 1921

The great success of this show brought "NGYNRS SP.Sms." back to Massey Hall the next year. As in the year before, tickets were sold at fifty cents each to cover costs (in those days it cost \$198.13 to rent the Hall compared to \$700.00 today). The show in its second season was again extremely well received.

In 1923 however, the format of "NGYNRS SP.Sms." changed quite radically. The show was moved to Hart House for reasons that fifty years later in 1973 are humorous. As it is reported in "The Transactions" of 1923, the move to Hart House had little to do with the

show itself, and was rather a successful attempt to bring the lady friends or "members of the weaker sex — to use a much hackneyed if not doubtful phrase" into the House to enjoy all the facilities that it had to offer.

"We will devise a plan whereby our lady friends may view Hart House as is. They must see all the departments in action — from the rifle ranges to the library."

Transactions, 1923

This year brought about a complete change in the type of show that had been presented in the previous two years. The performance in the Hart House Theatre was only a small part of the evening's festivities. Almost the entire House was opened up for displays, demonstrations, and sports activities. There were swimming and waterpolo exhibitions in the 'tank' (today known as the pool), basketball games, fencing, boxing, and wrestling matches in the gyms, and shooting competitions in the rifle ranges. One of the highlights of the night was the 'Midway' in which each Department ran games or demonstrations, giving lollypops out as prizes. 'Hot Dawgs' and coffee were on sale for five cents and there were three dance bands on hand from 10:30 p.m. until 1:00 a.m.

This year, 1923, is regarded as being the beginning of School Night. It was truly a school night, with all facets of student activities on display. Admission was free and of course restricted to schoolmen and their lady friends. There were over two thousand people in Hart House that night.



The format of School Night that was established in 1923 continued for over twenty years, combining a variety of theatrical reviews with displays, competitions and dancing. In 1924 an original play called "Insomnia" was performed in which Ralph Kerr, the author, played the leading lady (all the female parts up until 1944 were played by schoolmen). The play was a humorous prophecy of the faculty and the university thirty years hence and, like much of our humour today in the Toike and Skule Nite '80, was based on a satire of the present life in the university. It is interesting to note that many of the attitudes that were depicted in the early days of School Night are still prevalent today. The School Night of 1929 (or Stunt Night as it was sometimes called) presented one skit in which the Varsity staff was convicted of "many unmentionable crimes" and the editor was subsequently hanged. Doubtless this skit would be as hilarious now as it was then. The club displays that were scattered throughout the House also added fun and enjoyment to the evening's activities.



One of the displays at School Night 1924 was a particular hit.

"The Chemical Club with the aid of an array of stills and vats gave an exhibition of the manufacture of the forbidden fluid, but alas, all that was served to the mob that surged around was harmless orange crush."

Transactions, 1924

For the next twenty years School Night, School Nite, and eventually Skule Nite enjoyed the reputation of being the most popular 'Informal Night' on campus. It was credited with the highest attendance of any social event put on at the University. By 1936 the evening had expanded to include two performances of the 'Revue' in the theatre, a buffet supper, and dancing with five orchestras until 2:00 a.m. It was certainly a full evening of entertainment for the modest admission price that was levied.

This popularity continued through the late thirties and early forties. Although the 'Midway,' the club displays, and most of the sports competitions were slowly disappearing from the list of attractions, the

'Revue' itself was becoming the most important part of the evening. Of course the old dance bands were always very popular. One of these bands was described in the following way:

"...the Commodores (a quartet) catered to all with lilting waltzes and "hepcat Jive" mingled with dances such as the popular "Coki Oki"... What else could one ask for?"

Transactions and Yearbook, 1940

The School Nite of 1944 marked a changing point in the history of this social event. Because Hart House Theatre was unavailable that year, the entire show was moved over to the Royal Ontario Museum (why ROM of all places is a mystery). Timber beams and columns, a timber ramp, a helicopter (loaned by the T.T.C.), a totem pole, a tandem bicycle, spotlights, backdrops, platforms, a bed and mattress, a switchboard, street lamps, etc., etc., all invaded the Museum for the show. There is probably truth to the rumor that on February 4th, 1944 Cleopatra turned over in her sarcophagus. A

tremendous amount of work was put into the performance that year, and the show was extremely well done. The added festivities that had played such a large part in the evening in the past were dwindling however. So much effort was being put into the theatrical portion of the event that there was no time or support for organizing the other activities. In the following year, the 'Revue' would become the only attraction on the School Nite program.

School Nite 1945 began a new era in the history of this yearly event. The show was moved ahead into November and ran for several nights. A director and a producer were chosen almost a full year before show time and work would begin immediately. Detailed sets, lighting, and technical effects became more and more complex, each year building on the knowledge of the year before. The cast and crew also grew from year to year, as more people returned to take part in the show for their second, third and even fourth season. The number of people directly involved in the performance reached as high as one hundred and fifty. Professional

musicians became involved; a conductor was often hired, as was a choreographer. After 1944 the role of women in the show became very important indeed. Girls in Engineering, Nursing, Pots, and Arts and Science all came out to audition. In fact, in 1961 out of one hundred and fourteen people in the cast, forty-five were girls.

1945 began a trend in the style of School Nite that would last for over twenty years. By 1949 eight performances of the show were being given and even more people were clamouring for tickets. It has been said that in the fifties one ticket to Skule Nite would trade for two tickets to the Grey Cup on the open market. The show was rapidly becoming more professional in dancing, singing, acting, and especially in technical effects. A whole term would be spent building machines and 'gizmos,' many of which had only cameo roles, but all of which added a special touch that was familiar to Skule Nite alone, a touch that only Engineers could add.

During the fifties magnificent dance scenes and chorus lines outfitted in elaborate costumes were a major part of the production. Those who were involved in Skule Nite during the fifties and sixties will remember well Arline Patterson, the choreographer who returned for twelve years running to work on the show. Her dances have often been compared to those of Flo Zeigfield in style and complexity. In this era many of the people involved in Skule Nite came back year after year to take part: directors like Bob Zacharczuk, singers like the Skulehouse Four, and many other dedicated people. This was perhaps the greatest asset of Skule Nite during these years; each new season brought back at least fifty old faces, experienced and eager to do it all again.

The performance itself during these fruitful years was invariably based on humour. It was made up of short skits, quick and fast moving, each one poking fun at some institution, tradition or group of people. Sex and booze were recurring themes in many skits, and for the most part were used to poke fun at Engineers themselves.

In the later sixties however, attendance at Skule Nite was beginning to drop off, as it was for many campus activities at the time. The once spirited college student was being replaced by a more serious breed which was not the least bit interested in the old 'rah rah' life that at one time had embraced the university. This change in student attitude was becoming evident on campus' all over the world. Although the spirit in Skule was less affected than in most faculties, by 1966 the box office of Skule Nite was beginning to suffer from it. By 1968 it was becoming very hard for the Engineering Society to justify the thousands of dollars that were being poured into the show.

In an attempt to revive interest in the Engineering production, the Society in 1968 decided to put on the Broadway musical comedy "Stop The World, I Want To Get Off." As much work was put into this show as ever before, and it was probably the best theatrical performance in the history of Skule Nite. But it did not sell, and thousands of dollars were lost. To all those involved in the production that year it must have

seemed that the days of Skule Nite were over. The next year the Executive of the Engineering Society, still suffering from the debt of the year before, would not support another Skule Nite.

Three years past, and in this short time Skule Nite became at most a legend. By 1972 most skulemen had never heard of this event that had once captured the delight of thousands. Many did not care.

Finally in the summer of 1972, with the spirit of the centennial being cued in the wings, and with the determination of a handful of Society members, it was decided that Skule Nite would be revived for the centennial year. This decision was hardly an easy one to take. There was much opposition, and most of it well founded on arguments of finances, lack of interest, and no experience. Nevertheless, the decision was made, Skule Nite would go on one more time, even if only as a tribute to its fiftieth anniversary and the hundredth anniversary of the faculty. And so on February 14, 15, 16, and 17, 1973 Skule Nite once more, and perhaps for the very last time, was brought to life under the lights of the Hart House Theatre.

The unprecedented success of Skule Nite 7T3 sowed the seeds of excitement for the cast and crew of that show, who set out in short order to create a theatrical dynasty which still exists today.

Much of the script of the '73 show was a reworking of skits from previous years. Utilizing the successes (and ignoring the failures) of that material, the budding script writers began writing an entirely original show. With a certain amount of "poetic license", Skule Nite 7T4 was written and performed, once again at Hart House Theatre. Artistically and financially, the show suffered from an overly ambitious writing and production staff, but the "high" of the performance was too great, too exhilarating to ignore. Skule Nite had returned for good.

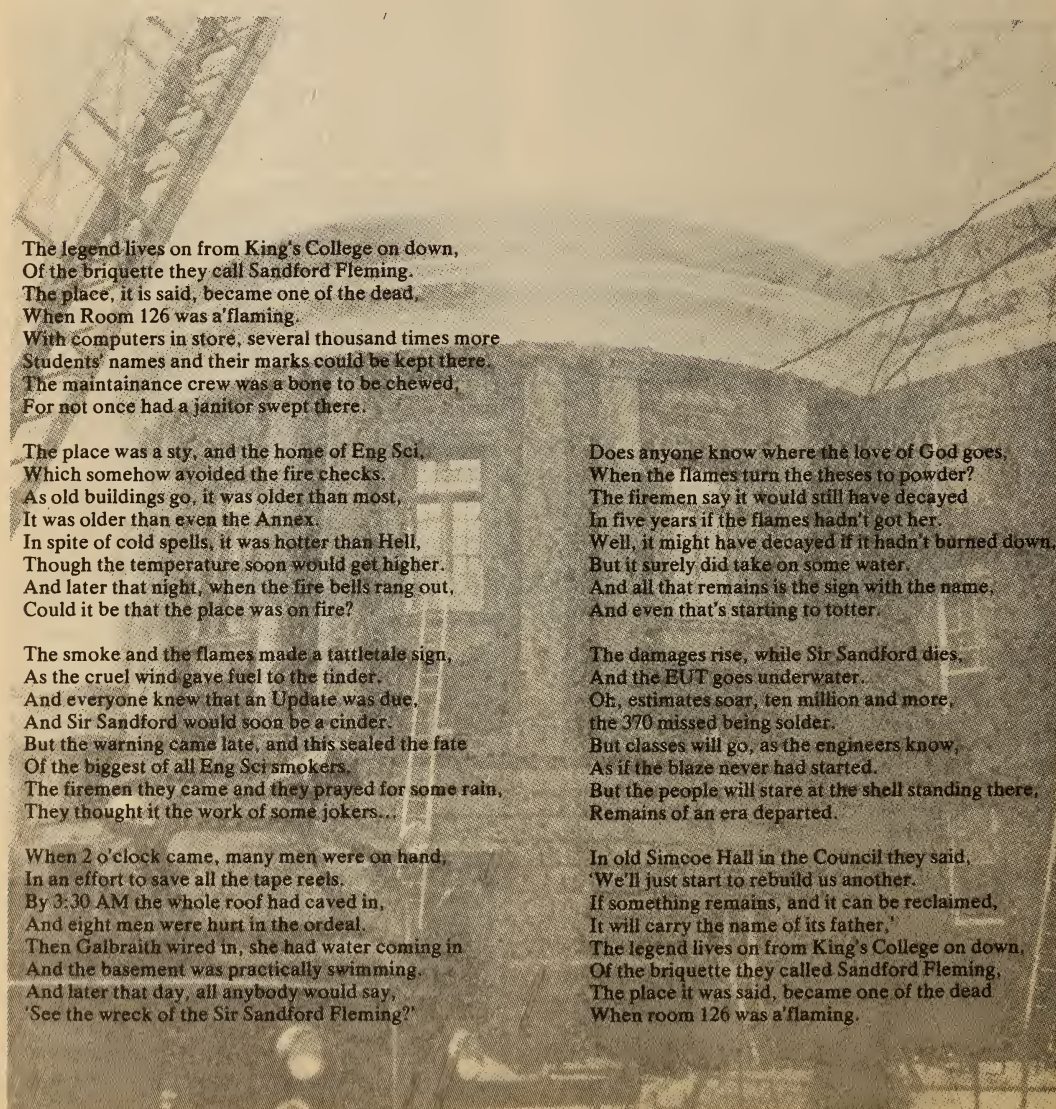
Over the next six years, Skule Nite has evolved into the most efficiently run, well designed, and enjoyably performed musical revue on campus. Skule Nite 7T9 and 8T0 received excellent reviews from "The Varsity", which has been well-known as a miserly donor of plaudits. Comments from the "Toike Oike" have never been short of laudable, if not prejudiced.

The ever-increasing popularity of Skule Nite was demonstrated in Skule Nite 8T0, when producers Pierre Gagnon and Graham Skells (himself a three-year veteran of that job) reported ticket sales of 97% for the four nights, the culmination of the experience of eight shows since 1973.

Under the long and experienced guidance of "Mr. Skule Nite", Paul Baker, his partner in artistic crime, Rob West, and the inspired writing of Jim Podolak, Skule Nite has survived the 1977 blaze at the Sir Sanford Fleming Building, eviction from the Borden Building in 1980, financial disasters, and ugly reports of student apathy towards Society activities. In spite of itself, and because of itself, Skule Nite will outlast us all. See you there!



The Wreck of the Sir Sanford Fleming



The legend lives on from King's College on down,
Of the briquette they call Sandford Fleming.
The place, it is said, became one of the dead,
When Room 126 was a'flaming.
With computers in store, several thousand times more
Students' names and their marks could be kept there.
The maintenance crew was a bone to be chewed,
For not once had a janitor swept there.

The place was a sty, and the home of Eng Sci,
Which somehow avoided the fire checks.
As old buildings go, it was older than most,
It was older than even the Annex.
In spite of cold spells, it was hotter than Hell,
Though the temperature soon would get higher.
And later that night, when the fire bells rang out,
Could it be that the place was on fire?

The smoke and the flames made a tattletale sign,
As the cruel wind gave fuel to the tinder.
And everyone knew that an Update was due,
And Sir Sandford would soon be a cinder.
But the warning came late, and this sealed the fate
Of the biggest of all Eng Sci smokers.
The firemen they came and they prayed for some rain,
They thought it the work of some jokers...

When 2 o'clock came, many men were on hand,
In an effort to save all the tape reels.
By 3:30 AM the whole roof had caved in,
And eight men were hurt in the ordeal.
Then Galbraith wired in, she had water coming in
And the basement was practically swimming.
And later that day, all anybody would say,
'See the wreck of the Sir Sandford Fleming?'

Does anyone know where the love of God goes,
When the flames turn the theses to powder?
The firemen say it would still have decayed
In five years if the flames hadn't got her.
Well, it might have decayed if it hadn't burned down,
But it surely did take on some water.
And all that remains is the sign with the name,
And even that's starting to totter.

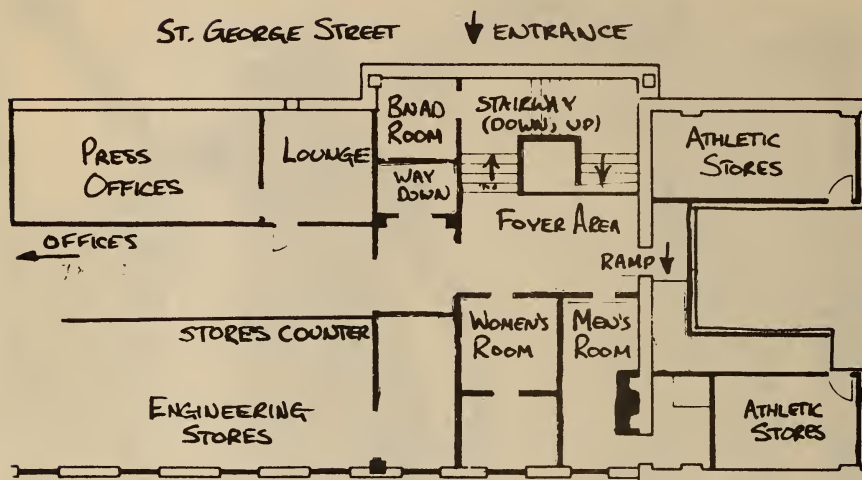
The damages rise, while Sir Sandford dies,
And the EUT goes underwater.
Oh, estimates soar, ten million and more,
The 370 missed being solder.
But classes will go, as the engineers know,
As if the blaze never had started.
But the people will stare at the shell standing there,
Remains of an era departed.

In old Simcoe Hall in the Council they said,
'We'll just start to rebuild us another.
If something remains, and it can be reclaimed,
It will carry the name of its father.'
The legend lives on from King's College on down,
Of the briquette they called Sandford Fleming.
The place it was said, became one of the dead
When room 126 was a'flaming.



SKULE Services Section

How to Find the Engineering Society



THE UNIVERSITY LIBRARY SYSTEM

As a student in the Faculty of Engineering, you have access to more than fifty libraries connected with the University of Toronto. All you need to borrow books is a library card and a map of the St. George campus to find the library of your choice.

Library cards

Cards are issued in the Robarts Library during the day and in the evening at the beginning of the academic year. At other times, they are issued between 9 a.m. and 5 p.m. Just bring your student card. Questions about library cards are handled by the Reader Registration Office, 978-6433.

The central University of Toronto Library includes:

Robarts Library 130 St. George Street 978-2294
Humanities and social sciences research collection, including maps, microtexts and government publications.

Sigmund Samuel Library 9 Kings College Circle 978-2280

A duplicate copy collection designed specially for undergraduates in the Faculty of Arts and Science.

Science & Medicine Library 7 Kings College Circle 978-2284

Main Science and medicine research collection.

Engineering Library 20 St. George Street 978-6494

A subsidiary of the Science and Medicine Library, includes material on civil, chemical, industrial and mechanical engineering, as well as material on

photography, crafts and technology.

Campus libraries of interest to engineering students:

Aerospace Studies, Institute for, Rm 117, 4925 Dufferin St. Downsview.	667-7712
Architecture, Rm 066, 230 College Street	978-2649
Audio-Visual, Rm 1315, 9 Kings College Circle	978-2280
Chemistry, Rm 429, 80 St. George St.	978-3587
Computer Science, Rm 331, 60 St. George St.	978-2987
Environmental Studies, Rm 316, Haultain Bldg. behind 170 College St.	978-7429
Forestry, Rms. 102 & 110, 45 St. George St.	978-6016
Geology, Rm 316, 170 College St.	978-3024
Industrial Relations, 123 St. George St.	978-2928
Management Studies, Rm 310, 246 Bloor St. W.	978-3421
Map Collection, 1st floor, Robarts Library	978-3372
Mathematics, Rm. 2124, 100 St. George St.	978-8624
Physics, Rm 211, 60 St. George St.	978-5188

Carolyn Murray
Co-ordinator of Library Instruction
University of Toronto Library
Robarts Library, Room 4056
130 St. George Street
Toronto, M5S 1A5

CAREER COUNSELLING AND PLACEMENT CENTRE

"Helping YOU fight UNemployment"

SUMMER AND PART-TIME JOBS

The key to success in your job search is starting early. Begin in October to check out the following services:

- a) Summer On Campus Recruitment: Major employers representing government, business and industry come on campus to recruit students for career-related and other summer jobs.
- b) Individual Summer Job Listings: In addition to the on-campus programme, over 4,000 individual summer jobs are listed with the Centre. Don't wait until summer 1981 has arrived. Check the job listings early.
- c) Part-Time Jobs: Having a part-time job for the academic year is also a good way of gaining valuable work experience and avoiding those old financial blues. Interested in working as a tutor? Investigate these job services as well.

CAREER COUNSELLING

The Centre's Career Counsellors are available to help you in a variety of ways:

- Career Planning groups - to lead you through the stages of making a career decision
- Individual counselling
- Job search seminars - to develop resume, interview and job hunt skills.

Drop in or call the Career Counselling Office for further information and counselling appointments.

CAREER INFORMATION

Everything you wanted to know about careers, further education, employers, the job market and much much more! The Career Information Library can help you out at every stage of career planning and job hunting.

Beginning in the fall, we will also offer the Careertalks series. Guest speakers will come on campus to talk about careers in their field. Check with the Centre or watch for our campus-wide advertising for specific details.

**CAREER COUNSELLING
AND PLACEMENT CENTRE**
344 Bloor Street West, 4th Floor
(Bloor at Spadina)
978-2537

Hours: (academic year)

Monday, Wednesday, Thursday	8:00 - 6:00 p.m.
Tuesday	8:00 - 8:00 p.m.
Friday	8:00 - 5:00 p.m.



ALUMNI COUNCIL

The Engineering Alumni Council is a body whose main objective is to provide a liaison between undergraduates, graduates and staff of the University of Toronto.

Their funds are derived from donations from engineers to the varsity fund on an annual basis.

Through this vehicle, the council supports many undergraduate functions such as the graduate ball, undergraduate trips to other universities and many "in-house" class functions. Bursaries and loans are made available to the undergraduates and students can apply for these through the engineering university office.

The council also supports many other worthwhile projects such as the Sir Sanford Fleming "re-build" and has fathered the recently created "Hall of Distinction".

Throughout the year, undergraduates are invited to attend some of the monthly meetings at which time students and alumni can share their needs and discuss how the interaction of the two bodies can be served.

The Engineering Society and the Engineering Alumni Council have worked diligently together over the years and the co-operation and dedication of both bodies is culminated by the annual dinner to honour those graduating from the Society and those incumbents who will carry on the excellent work of the Society.

Places to Feed

Oh dear... It's that time of day when hunger hits and the pocketbook shies itself into a very small corner of your pocket. Or into the position where you must learn...

HOW TO COMMIT A DULL TREE

Where, might you ask, is a good (relatively) place to find something to absorb the juice which is leaking into your stomach and causing that overwhelming desire to feed? Well, here, for the staunch of paunch, are some of the local feeding places, and a brief indication of what is **unique** about them.

Slightly south of our Engineering buildings is a strip of greasy spoons (a favourite at the **Elm**), starring **Grads**, the **Elm**, and **Students**. These places are fine if you're semi-suicidal or not too bright, or merely desperate, since from experience we have found that it is not humanly possible to tame any meat-like object thrown at you. Thus, for engineers these places come highly recommended.

Of the three, the **Elm** is usually the least deadly, especially in small doses. The fish and chips are the best choice for the squeamish, since they're supposed to be greasy.

For the more normal folk there are other "food" distributing outlets surrounding the campus, including: **Harvey's** — less greasy (slightly)

Mr. Submarine — forms a lump of hardness 9

Swiss Chalet — how can they do that to a poor defenceless chicken?

Pizza Patio — dry but not a bummer

Frank Vetere's — a bummer

Mama Giovani's — a disco bummer

Macdonald's — what need we say?

Park Plaza (Murray's) — decent (relatively)

Toby's — a yummy variety of burgers

Med Sci cafeteria — a cafeteria

Innis — Innisy eats

Grad Students' Union — edible, sometimes

New College — NO NO NO nooooooooooooo

Hart House Great Hall — actually the best on campus

Huron Groceteria — eat quickly

Fran's Basement — all you can eat spaghetti and more than you want to, but cheap wine.

Fran's — decent, unless you like food (go back to basement)

Ali Baba — some like it hot, and here's where they belong

Mother's — reasonable subs, sweet or hot

Peking — you know those rumours you hear about Chinese food?

Tel Aviv — falafels that stay with you

Yung Lok — quite good food at reasonable prices

the place just south of Yung Lok — even better, sometimes

United Dairies — Kosher food (no real meat) with no antidote required

Switzer's — another quasi-kosher restaurant, this time with meat and catering

Shopsy's — more of the same

LCBO — The Engineer's food store... your best bet

...and there's more out there lurking off campus waiting for you to wander inside. Better lay in a heavy stock of seltzer, or better yet, learn to fast.

And if you plan to spend a lot of late nights away from home, may your soul rest in peace.

Campus Cops

Sooner or later you will find yourself face to face with one of Trawna's finest **campus cops** - a Mickey Mouse. The Mouse mentality is actually quite simple to understand, and if you think about it, that's hardly suprising. There are a number of basic tricks to know when dealing with them:

1) **They don't want to know.** The typical Mouse is terrified that something embarrassing might happen during his shift. If he can look the other way, or better still walk the other way, he will. Give him the chance. **A cornered Mouse can be dangerous.**

2) **Act innocent.** Smile and say hi - this often scares them away.

3) **Give him your name.** They are supposed to check your student card, but usually settle for a name. "Joe Skule" is one of their favourites. Don't worry about legal hassles. They file the names in the darkest depths of the Administration, never to be seen again. Or use some dumb artsie's student card.

4) **Tell them what you've done.** The fastest way to get rid of unwanted Mice is to tell them you've blown up Simcoe Hall, or burned down Sanford Fleming, or something equally imaginative. Then they won't let you

tell them what you've been doing. They're in too much of a hurry to vanish.

5) **As a last resort, give them a beer.** All mice love beer. If you can't get rid of one and you need him to be friendly, you'll have to give him a drink. But Mice find beer hopelessly addicting. You may make them friendly, but they'll never leave - they'll come back again and again and again.

6) **Be nice.** The Mice can't help being Mice, they need the job. They can get really nasty at times, and remember — the **Metros do** have full authority on Campus — all the Mice have to do is call them. But then you wouldn't do anything illegal anyway.





The EAA

What is the E.A.A.?

The E.A.A. is the Engineering Athletic Association. It is YOUR athletic association because everyone registered in the faculty is a member.

What is the purpose of the E.A.A.?

The E.A.A. encourages participation in athletics in every way at the University and works in cooperation with the University of Toronto Athletic Association.

Who runs the E.A.A.?

The E.A.A. is run by fifteen students. It consists of a President, Secretary-Treasurer, Director of Athletics and twelve Commissioners. Each Commissioner is responsible for a sport - aquatics, basketball, football, hockey, lacrosse, rugby, soccer, squash,

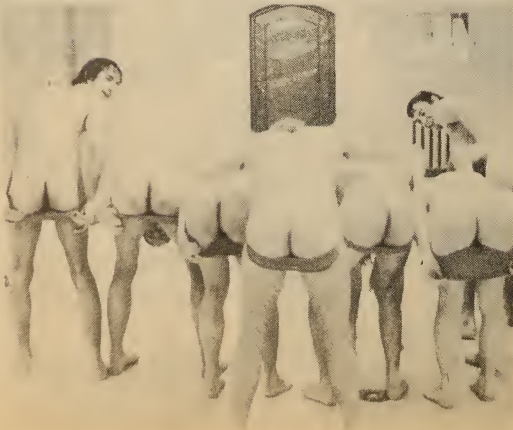
track and field, volleyball and two Commissioners look after Women's sports.

How can I find out more about athletics?

Watch for signs in the faculty buildings, go to the athletic Store's third floor of the Metro library, or phone the E.A.A. president, Dale Kerr at 757-1047. Also read the Toike and the Cannon.

What about Women's sports?

Women participate in five team sports: touch football, basketball, ice hockey, volleyball and innertube waterpolo. Other sports are available such as tennis, badminton, squash, soccer, field hockey and swimming but they depend on you so come out and participate.



What will I get out of PARTICIPATING?

You'll have fun, meet lots of people in your own faculty as well as in other faculties, make friends, keep in shape, get a break from the books and just for participating, you can win awards and S-points.

Tell me about the awards.

Anyone winning an individual or team championship wins a pewter stein engraved with the Engineering crest. Finalists can win engraved pen sets. And there are more awards for the most valuable players in each sport, awards for classes for participation, athletes of each year and awards for those with enough S-points.

You already mentioned S-points. What are they?

Everytime you participate in athletics at the University, you get a certain number of S-points. The more successful your effort is, the more points you can get. If you get 15 points, you get a Chenille "S"

(Skule letter) and if you have 40 points you get a Bronze "S" (an oak plaque with an engraved faculty crest) in you graduating year.

When are the awards presented?

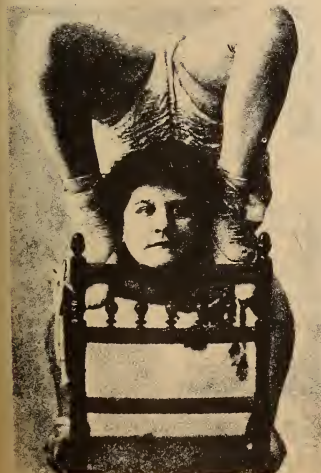
Sometime in March, all the awards are presented at the annual S Dance.

Tell me more about the S Dance.

Anyone can come to the S Dance, even non-athletes. It is held in a downtown hotel. There's no admissin charge and besides all the awards being given out, there's dancing and booze and lots of fun.

Sounds like Engineering athletics are lots of fun.

They sure are. Participation is the key. And no other faculty offers their students so much for athletic participation. So keep your eyes open for posters or call Dale Kerr, 757-1047, and you too can get involved.



S-Points

Every time a Skuleperson participates in Engineering or Varsity athletics at the University, he or she gets a certain number of S-Points. The more successful your effort, the more points you get. If you get 15 points, you get a chenille "S" (ie. Skule letter). If 40 points are accumulated during your years as an Engineering undergrad, you get a bronze "S" (an oak plaque with the engraved APSC crest) in your graduation year.

To keep track of your points total, fill out an S-Point form next term, in January or February (watch for posters) and return it to the athletic stores. Even if you don't have sufficient points for an award, fill out a form for the points are cumulative.

S-Points Awards

I Athletic "S" Award -15 points

II Bronze "S" Award -40 points (fourth year only)

III Championship team -pewter stein

IV Individual Awards

(a) record set or 3 wins/meet -pewter stein

(b) one or 2 wins/meet -pen set

V Outstanding Athlete in each year (4 awards)

-selected by EAA, as described in its constitution

VI EAA Class Trophy -for the class with the highest number of S-points per capita.

Team Sports Division A

Class I -the first teams in any team sport in inter-faculty competition ie. Sr. basketball, rugby, squash I, Sr. hockey, waterpolo, lacrosse, Sr. soccer, volleyball I, football.

Class II -the second or third team listed in Class I, still in interfaculty competition.

Class III -teams which play in the touch football, intermediate hockey or basketball or any other intermediate competition.

S-Point table

Class	I	II	III
Participation (80%)	5	4	2
Playoff team	6	5	3
Finalist team	7	6	4
Championship	9	8	5

Women's Sports

All women's teams shall be Class II, unless schedule and competition demands are comparable to men's Class I team (as decided by the EAA).

Individual Sports Division B

This includes track and field, golf, swimming, tennis, skiing, cross-country, or any other tourney-type sport. The individual points breakdown is available upon request.

Varsity Teams

Varsity Intercollegiate Colour (First "T") winners are eligible for 10 points.

Managers and Coaches

One to three points per sport are eligible to certified managers or coaches.

Editor's Epilogue

Well, it's 3 am again, and I'm still sitting here trying to get this job done. Anyone who thinks it's easy to put together a book like this together should try it first. There's always just one more thing to do. It can never really be finished.

Luckily for me, most of the text and pictures in this book are recycled from old handbooks, yearbooks and Toikes. I'd like to thank the editors of these publications for the articles I ripped off. I'd also like to thank the Eng Soc Executive for making it easier to get the current articles (clubs, committees, ect.) and for generally taking care of the administrative side of the production.

Special thanks go to Bob, Humberto, Wendy and the staff of Planet Publications for their invaluable assistance.

I hope that you, the Flrosh of 8T4 find this book helpful in some way during your adjustment to Skule life.

**MIKE STEPHENSON
HANDBOOK EDITOR**

P.S. Sue: This book contains no Mooses, no Penguins and only one Ule.



**WELCOME
GOOD LUCK**

AND

HAVE A GOOD YEAR

FROM YOUR FRIENDS

AT

MOLSON'S

ENGINEERING SOCIETY PHONE LIST

ENGINEERING SOCIETY

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Geological Club - Korliss Jansens	767-1388
Industrial Club - Joe Valerio	
Engineering Athletic Association - Dale Kerr	757-1046

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Social - Lynn Wizniak	233-1451
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Blue & Gold - Ofer Pittel	223-7259
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- Randy Sinukoff	
Fourth Year - Brian Baetz	
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